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[General publications]
[G-1] An inventory of
agricultural economics research
in Canada. 1964-1966 by
R.A. Stutt.

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[General publications]

[y-1] AN INVENTORY OF AGRICULTURAL ECONOMICS RESEARCH

IN CANADA

1964 to 1966

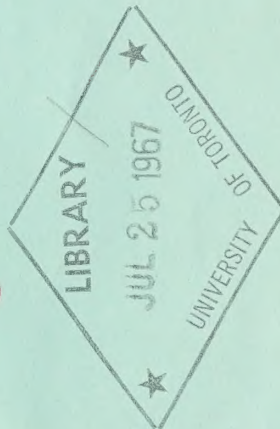
COMPILED BY R.A. STUTT

ECONOMICS BRANCH,

CANADA DEPARTMENT OF AGRICULTURE

67/3

OTTAWA, FEBRUARY 1967





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PREFACE

i.

This is an inventory or catalogue of research projects in the field of Agricultural Economics commenced or completed between January 1, 1964 and July 1, 1966, as provided by the research agencies concerned. In conjunction with a compilation by the Economics Branch for the 1953 to 1958 period and one by the Agricultural Economics Research Council in 1963 it permits an updating and continuous inventory of research since 1953.

A total of 50 research agencies (see appendix) were surveyed and requested to provide information for each project which they considered should be included in an inventory of agricultural economics research. It is believed that this group conducts most of the research in this field. The information solicited included the name of the project leader or leaders; cooperative arrangements with other agencies; title of project; date of commencement and completion; estimated professional man-years involved; source of research funds; and a brief outline in terms of purpose, scope, research methods, form of publication and application of results. These data are summarized in the listings. It should be stressed that the period of research

for many of the projects listed commenced prior to January 1, 1964 and for others would extend beyond July 1, 1966. In addition to regular staff research activities at the universities, student thesis projects at the masters and doctor's level were included.

A number of research projects were conducted by one or more agencies. In these cases, the agency originating the study and normally providing the major research input was named first in the listings. This was followed by the cooperating agency or agencies as well as organizations providing research funds.

The research projects are classified into seven main categories. The first four categories are broken down into fourteen meaningful sub categories. It is difficult to readily define categories and sub categories of any classification clearly and distinctly. Thus many projects involve phases of one or more sub categories. Projects are included in the particular classification in which it is believed the prime emphasis is placed. In the summary tables the projects are credited to the principal agency (federal, provincial, university or private) listed as the originator.

The projects included in this inventory currently in progress on July 1, 1966 will form part of an overall survey of all research activities in Canadian Agriculture being conducted by the research section of CASCC (The Canadian Agricultural Services Coordinating Committee). This complete agricultural research inventory, in turn, will be part of an all-inclusive current research inventory for all sectors of the Canadian economy by the Science Secretariat.

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Following are examples of types of research areas in each classification and subclassification.

1. ECONOMICS OF PRODUCTION

1.1 Farm Organization and Structure

Composition and aggregate productivity features of farms; types of farming; farm classification; tenure; farm consolidation and enlargement; part-time farming; and efficiency aspects of farm organization and structure.

1.2 Farm Management and Production Economics

Farm planning; income, costs and returns of an enterprise and individual and groups of farms; farm labor; farm accounts; decision making; economics of scale; farm mechanization and technology; management practices; leasing; farm transfers; and integration aspects.

1.3 Farm Finance

Investment values and capital requirements; internal credit needs and use; insurance; indebtedness; assessment and taxation; financial risk and uncertainty.

2. MARKETING, DISTRIBUTION AND TRADE

2.1 Market Organization and Structure

Institutions and boards; market services; assembly, storage and distribution; competition; transportation; processing.

2.2 Marketing Efficiency

Marketing costs; new methods and procedures.

2.3 Demand, supply and prices

Consumption needs; demand and supply analysis; and market prices.

2.4 International Agriculture and Trade

International agricultural product competition; trade agreements; tariffs and quotas; and foreign loans and aid.

3. RESOURCE USE AND DEVELOPMENT

3.1 Land and Water

Land utilization and conservation; land settlement; economic evaluation and appraisal; irrigation and other farm water use and conservation; and reclamation.

3.2 Labor

Operator, family and hired labor employment; underemployment; farm labor efficiency; and off-farm employment.

3.3 Capital

Farm credit institutions; capital efficiency in the agricultural industry; loaning practices and procedures; subsidies, grants and qualified financial assistance.

3.4 Planning and Development

Economic growth in Agriculture; area or regional planning; redevelopment and rural development; integration with non-farm economy sector.

4. RURAL SOCIOLOGY

4.1 Population and Migration

Population distribution and change; age of operators; and demography.

4.2 Social Organization and Welfare

Living levels and standards; group organizations; rural poverty and living conditions; health; adjustment problems.

4.3 Education, training and extension

Educational levels; curriculums; teaching methods; leadership; group dynamics, participation and communication; farmer organizations, community institutions; adaption.

5. AGRICULTURAL POLICY

6. COOPERATION

7. METHODOLOGY AND THEORY

Summary of Agricultural Economics Research Projects by Principal Agency, 1964 to 1966

| Classification | Federal | Provincial | University | Private | Total |
|--|---------|------------|------------|---------|-------|
| - number - | | | | | |
| 1. Economics of Production | | | | | |
| 1.1 Farm organization and structure | 16 | 2 | 8 | - | 26 |
| 1.2 Farm management and production economics | 27 | 46 | 26 | - | 99 |
| 1.3 Farm finance | 5 | 4 | 3 | - | 12 |
| Total | 48 | 52 | 37 | - | 137 |
| 2. Marketing, Distribution and Trade | | | | | |
| 2.1. Marketing organization and structure | 6 | 6 | 18 | 4 | 34 |
| 2.2 Marketing efficiency | 1 | 2 | 1 | - | 4 |
| 2.3 Demand, supply and prices | 8 | 4 | 12 | - | 24 |
| 2.4 International Agriculture and Trade | 1 | - | 6 | - | 7 |
| Total | 16 | 12 | 37 | 4 | 69 |
| 3. Resource Use and Development | | | | | |
| 3.1 Land and water | 17 | 14 | 13 | - | 44 |
| 3.2 Labor | 1 | - | 3 | 1 | 5 |
| 3.3 Capital | 2 | 2 | 1 | 1 | 6 |
| 3.4 Planning and development | 4 | 17 | 23 | 7 | 51 |
| Total | 24 | 33 | 40 | 9 | 106 |
| 4. Rural Sociology | | | | | |
| 4.1 Population and migration | - | 4 | 4 | - | 8 |
| 4.2 Social organization and welfare | 3 | 2 | 4 | 1 | 10 |
| 4.3 Education, training and extension | 1 | 2 | 12 | - | 15 |
| Total | 4 | 8 | 20 | 1 | 33 |
| 5. Agricultural Policy | 4 | - | 2 | - | 6 |
| 6. Cooperation | 3 | - | 1 | - | 4 |
| 7. Methodology and Theory | 8 | 2 | 4 | - | 14 |
| All Projects | 107 | 107 | 141 | 14 | 369 |

* Includes all research projects commenced and/or completed during the period January 1, 1964 to July 1, 1966.

| Classification | Federal | Provincial | University | Total |
|---|---------|------------|------------|-------|
| - number - | | | | |
| 1. <u>Economics of Production</u> | | | | |
| 1.1 <u>Farm organizations and sturcture</u> | 5 | 2 | 6 | 13 |
| 1.2 <u>Farm management and production economics</u> | 16 | 25 | 17 | 58 |
| 1.3 <u>Farm finance</u> | 4 | 2 | 3 | 9 |
| Total | 25 | 29 | 26 | 80 |
| 2. <u>Marketing, Distribution and Trade</u> | | | | |
| 2.1 <u>Marketing organization and structure</u> | 3 | 1 | 14 | 18 |
| 2.2 <u>Marketing efficiency</u> | 1 | 1 | 1 | 3 |
| 2.3 <u>Demand, supply and prices</u> | 6 | - | 7 | 13 |
| 2.4 <u>International Agriculture and Trade</u> | 1 | - | 5 | 6 |
| Total | 11 | 2 | 27 | 40 |
| 3. <u>Resource Use and Development</u> | | | | |
| 3.1 <u>Land and water</u> | 6 | 6 | 8 | 20 |
| 3.2 <u>Labor</u> | 1 | - | 2 | 3 |
| 3.3 <u>Capital</u> | 1 | 2 | 1 | 4 |
| 3.4 <u>Planning and development</u> | 3 | 5 | 10 | 18 |
| Total | 11 | 13 | 21 | 45 |
| 4. <u>Rural Sociology</u> | | | | |
| 4.1 <u>Population and migration</u> | - | - | 2 | 2 |
| 4.2 <u>Social organization and welfare</u> | 1 | 1 | 1 | 3 |
| 4.3 <u>Education, training and extension</u> | - | 1 | 2 | 3 |
| Total | 1 | 2 | 5 | 8 |
| 5. <u>Agricultural Policy</u> | 3 | - | 1 | 4 |
| 6. <u>Cooperation</u> | 1 | - | 1 | 2 |
| 7. <u>Methodology and Theory</u> | 6 | - | 1 | 7 |
| All Projects | 58 | 46 | 82 | 186 |

LISTING OF PROJECTS

1. ECONOMICS OF PRODUCTION

| Title of Project | Agency | Period of Research | | | Project Leader(s) | Profes- sional | | | Brief Outline |
|--|---|--------------------|------------|-----------|----------------------------|----------------|-----------|-----------|---|
| | | Date | Date | Completed | | Started | Completed | man-years | |
| 1.1 <u>Farm Organization and Structure</u> | | | | | | | | | |
| Marshland Farming in the Sackville Area of New Brunswick | Economics Branch, Canada Dept. of Agriculture in cooperation with New Brunswick Dept. of Agric. | Nov. 1964 | April 1965 | | G.C. Retson P.C. Schousboe | | | 0.5 | An investigation of factors contributing to low income and decline in farming. Based on data provided by 26 farm operators. |
| Changes in Farm Organization, Sifton-Fort River Area, Manitoba | Economics Branch Canada Dept. of Agriculture | July 1962 | April 1964 | | T.O. Riecken L.M. Johnson | | | 1.5 | One in a continuous series of studies designed to show adjustments and changes in the structure, organization and returns for major types of farms. This study concerns 66 farms and the analysis is made on basis of size of farm. |
| Changes in Farm Organization Somerset-Manitou Area, Manitoba | Economics Branch, Canada Dept. of Agriculture. | July 1963 | April 1965 | | T.O. Riecken L.M. Johnson | | | 1.5 | One in a continuous series of studies designed to show adjustments and changes in the structure, organization of farms and returns. This study deals with 74 grain and 19 grain-livestock farms, analyzed by small, medium and large size groups. |

ECONOMICS OF PRODUCTION (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Professional | Brief Outline |
|--|---|------------------------------|--------------------|-----------|--------------|---|
| | | | Date | Date | | |
| | | | Started | Completed | man-years | |
| Changes in Farm Organization, Reston-Cromer Area, Manitoba | Economics Branch, Canada Dept. of Agriculture | L.M. Johnson T.C. Riecken | July 1964 | June 1966 | 1.5 | One in a continuous series of studies designed to show adjustments and changes in the structure and organization of farms, and returns. This study deals with 10 grain and 65 grain-livestock farms, analyzed by small, medium and large size groups. |
| Changes in Farm Organization, Low Productivity Soils, Brown Soil Zone, Saskatchewan, 1963. | Economics Branch, Canada Dept. of Agriculture | M. Ragush | June 1962 | May 1964 | 1.0 | Part of a series of studies to show adjustments and changes in structure and organization of grain and grain-livestock farms; the relative returns of farm enterprises by units of land area, output and labor; and variations in costs of production. The sample survey included 38 grain farms and 41 grain-livestock farms in the Piapot-Maple Creek area. |

ECONOMICS OF PRODUCTION (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional | Brief Outline |
|---|---|-------------------|--------------------|-------------|-------------------|--|
| | | | Date | Date | | |
| | | | Started | Completed | man-years | |
| Changes in Farm Organization, Medium Productivity Soils, Dark Brown Soil Zone, Saskatchewan, 1964. | Economics Branch, Canada Dept. of Agriculture | M. Ragush | June 1963 | August 1965 | 1.0 | Part of a series of studies to show adjustments and changes in structure and organization of grain and grain-livestock farms; the relative returns of farm enterprises by units of land area, output and labor; and variations in costs of production. The sample survey included 40 grain farms and 37 grain-cattle farms in the Craik, Davidson and Kenaston area. |
| Farm Costs and Returns, High Productivity Soils, Dark Brown Soil Zone, Saskatchewan, 1965 | Economics Branch, Canada Dept. of Agriculture | M. Ragush | June 1964 | July 1966 | 1.0 | Part of a series of studies to show adjustments and changes in structure and organization of grain and grain-livestock farms; the relative returns of farm enterprises by units of land area, output and labor; and variations in costs of production. The sample survey was conducted in the Rosetown area. |
| A Study of Farm Organization Relating to the Adequacy of Farm Units, R.M. of Berrier Valley no. 397, Saskatchewan | Economics Branch, Canada Dept. of Agriculture | J. Zeman | June 1964 | June 1965 | 1.0 | Purpose of study was to describe and evaluate the economic situation of farms in a low-income area and to indicate the income potential of these farms through intensification. Based on sample of 25 farms in northeastern Saskatchewan. |

ECONOMICS OF PRODUCTION (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research: | | Professional | Brief Outline |
|--|---|-----------------------------|---------------------|----------------|--------------|---|
| | | | Date Started | Date Completed | man-years | |
| A Study of Farm Organization Relating to the Adequacy of Farm Units, R.M. of Foam Lake No. 276, Saskatchewan | Economics Branch, Canada Dept. of Agriculture | J. Zeman | June 1962 | April 1964 | 1.5 | Purpose of study was to describe the economic situation of farms in the area and to indicate the factors favouring or hindering agricultural development and progress. Sample farms were one half and one section in size. In addition to farm organization and management data, information was obtained on sociological and living aspects. |
| Farm Organization Study, Alberta, 1963 | Economics Branch, Canada Dept. of Agriculture | K. Elgaard C.R. Hample | Jan. 1963 | July 1964 | 1.0 | The report describes current farm organizational features, farm practices, and costs and returns; indicates recent changes in major aspects of the farm business; and describes and measures some of the input-output relationships of the farm in 1963. A sample of 69 farms located in the Black Soil Zone of the Camrose District provided the data. |
| Farm Organization Study Alberta, 1964 | Economics Branch, Canada Dept. of Agriculture | K. Elgaard M.J. Lockhart | Jan. 1964 | May 1966 | 1.0 | The report describes current farm organizational features, farm practices, and costs and returns; indicates recent changes in major aspects of the farm business; and describes and measures some of the input-output relationships of the farm in 1964. The sample of farms was 64 and was obtained in the Grey wooded Soil Zone, Rocky Mountain House Region. |

ECONOMICS OF PRODUCTION (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional | Brief Outline |
|--|--|-------------------|--------------------|---------------|-------------------|---|
| | | | Date | Date | | |
| | | | Started | Completed | man-years | |
| Farm Organization Study, Alberta, 1965 | Economics Branch, Canada Dept. of Agriculture. | K. Elgaard | Jan. 1965 | Sept. 1966 | 1.0 | The report describes current farm organiza- tional features, farm practices, and costs and returns; indicates recent changes in major aspects of the farm business; and describes and measures some of the input-output relationships of the farm in 1965. A Sample of farms in the Thin Black Soil Zone was obtained. They cover three size groups and were of a cattle-wheat combination type unpublished. |
| Cattle Ranching in Southern Alberta, 1962 | Economics Branch, Canada Dept. of Agriculture | K. Elgaard | March 1962 | Feb. 1964 | 1.0 | This study describes the organization and practices of cattle ranches and appraises the efficiency in relation to scale, type of organization, etc. Complete farm business data was obtained for one year from 100 ranches stratified by region, size and management system. |
| Cattle Ranching Budgets, Alberta, 1965 | Economics Branch, Canada Dept. of Agriculture. | K. Elgaard | Feb. 1966 | Aug. 1966 | 0.4 | The budgets, based on the above survey, describes current organizational features of cattle ranches in Southern Alberta and shows the costs and returns at 1965 price levels. Budgets are shown for the Foothills and Short Grass regions and different management systems. |

ECONOMICS OF PRODUCTION (Continued)

| Title of Project | Agency | Period of Research | | | Project Leader(s) | Professionals | | | Brief Outline |
|---|--|---|----------------|---------------|-------------------|---------------|----------------|---------------|--|
| | | Date Started | Date Completed | Span in years | | Date Started | Date Completed | Span in years | |
| A Study of Farming in the Pemberton Valley, British Columbia. | Economics Branch, Canada Dept. of Agriculture. | B.K. Acton Aug. 1966 | Feb. 1967 | 0.9 | | | | | This study deals with the structure and organizational features of farms, extent of part-time farming and sources of non-farm employment and income. |
| Productivity Trends in Canadian Agriculture. | Economics Branch, Canada Dept. of Agriculture. | I.F. Furniss May 1961 | continuous | 0.5/ year | | | | | Purpose of project is to measure the trends in agricultural productivity; forces contributing to productivity change and relationship of productivity change to farm income. Canada wide and regional, and intra industry comparisons. |
| Optimum Resource Allocation on Beef Farms in Nova Scotia | Dept. of Economics, Dalhousie University in cooperation with Farm Mgt. Division, N.S. Dept. of Agric. | Chao Ching Yuan D.M. Evers June 1966 | May 1967 | 0.7 | | | | | The purpose of this study is to determine the organization on beef farms that will maximize profits and to determine an optimum plan from the standpoint of resource allocation and crop and livestock combination. Application of linear programming. |
| An Examination of Farm Enlargement as an Alternative to Community Pastures in Selected Areas, Ontario | Dept. of Agric. Econ. in cooperation Depts. of Crop Science and Animal Science, Univ. of Guelph, and ARDA Ontario. | G.I. Trant W.A. McPride P.A. Wright May 1963 | March 1966 | 1.5 | | | | | Study based on survey of selected townships in Grey and Bruce Counties and in South Eastern Ontario. Analysis applied to data having regard to institutional and other restraints to farm enlargement and community pastures. |

ECONOMICS OF PRODUCTION (Continued)

7.

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional | Brief Outline |
|---|--|-----------------------------|--------------------|-------------------|-------------------|--|
| | | | Date Started | Date Completed | man-years | |
| Economic Adjustment Possibilities on Specialized Ontario Dairy Farms. | Dept. of Agric. Econ. Univ. of Guelph. | G.I. Trant K.J. McKenzie | Dec. 1965 | July 1966 | 0.3 | This is a functional analysis of a sample of specialized dairy farms in the Ontario Farm Management Accounting Project. |
| Feasibility of Land Consolidation in Selected Townships of Leeds County, Ontario. | Dept. of Agric. Econ. Univ. of Guelph; ARDA (Ontario) | G.I. Trant | May 1965 | Nov. 1965 | 0.2 | This study investigates the economic feasibility of land exchange and/or consolidation with a view of its effect on farm income. |
| The Economies of Beef Production, Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. & Food | R.C. Ward R.G.F. Hill | March 1966 | April 1967 | 0.7 | A study delineating various types and systems of beef farms, costs and returns, assessing management factors and setting out standards of production. Based on 1,800 farms in the Ontario Farm Account Book project. |
| Cost of Production of Peaches, Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. & Food | W.J. Dillon | Feb. 1966 | April 1968 | 0.8 | A cost of production study and assessment of economic and physical factors contributing to successful production. Data for 25-30 growers in the Niagara Peninsula. |
| Economic Implications of the Freight Subsidy on Feed Grain. | Dept. of Agric. Econ. Univ. of Manitoba in cooperation with Dept. of Agric. Econ. Univ. of Saskatchewan | A.W. Wood A. Wilson | Sept. 1961 | April 1967 | 1.5 | The objective of the study is to determine the minimum costs of production, in accord with natural comparative advantages for animal products for which feed grain is an input; indicate the changes which occur in costs as result of subsidy; and the regional shifts in livestock production induced. |

ECONOMICS OF PRODUCTION (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Professional man-years | Brief Outline |
|---|--|---|--------------------|----------------|------------------------|---|
| | | | Date Started | Date Completed | | |
| An Analysis of Viable and Subsistence Farming in the Interlake Area of Manitoba. | Dept. of Agric. Econ. Univ. of Manitoba | G.A. Ackerman W. Carr | Sept. 1964 | Sept. 1966 | 0.8 | A survey of 258 farms and budgetary analysis to determine the organization and scale of a viable farm unit in the area, and the number of economic units which the resources are capable of supporting. |
| A Study of Feeding Variables in Rations for Lactating Cows: Determination of Optimum Grain-Forage Combinations. | Depts. of Agric. Econ. and Animal Science, Univ. of Alberta in cooperation with CDA and OECD. | H.C. Love C.M. Grieve | Sept. 1966 | Oct. 1968 | 3.0 | A study of milk production at different levels of energy intake and different feeding roughage and concentrate combinations; effects of ration digestibility; and the economic relationships involved, including an estimate of the substitution, relationships between grain and forage. |
| Land Reform in Ceylon An Evaluation. | Dept. of Agric. Econ. Univ. of Saskatchewan | H. Van Vliet R.C. Nicholson N. Sanderatne | April 1965 | Sept. 1966 | 1.1 | A case study and review of land reform policies of Ceylon in the light of changing conditions and the general overall development policies of the country. It has application for administrative purposes in similar underdeveloped countries. |

| Title of Project | Agency | Project Leader(s) | | Period of Research | | Profes- sional man-years | Brief Outline |
|---|--|---------------------------------------|--|--------------------|-------------------|--------------------------------|--|
| | | | | Date Started | Date Completed | | |
| 1.2 <u>Farm Management and Production Economics</u> | | | | | | | |
| Case Study Investigation of Fluid Milk Farms, Colchester County, Nova Scotia. | Economics Branch, Canada Dept. of Agriculture in cooperation with Nova Scotia Dept. of Agric. | G.C. Retson | | June 1966 | conti- nuing | 0.2 per yr. | Based on selected sample of nine farms selling in Halifax market. Provides information on changing income, costs, returns and related factors. |
| Hog Feeder Case Study in Nova Scotia | Economics Branch, Canada Dept. of Agriculture. | G.C. Retson | | July 1964 | conti- nuing | 0.1 per yr. | A detailed analysis of seven hog feeder operations. Purpose is to provide current data on costs and returns and related factors, and new development. |
| A Study of the Feasibility of Expanding manufactured milk production in Annapolis County Nova Scotia | Nova Scotia Dept. of Agric. in cooperation with Economics Branch, Canada Dept. of Agric. | N.V. Grant D. Byers G.C. Retson | | April 1964 | May 1964 | 0.3 | An analysis of 30 farms shipping milk for processing and factors contributing to decline in production trend and future intentions. |
| Economic Aspects of Farm Machinery Use in Crop Production. South Central Manitoba | Economics Branch, Canada Dept. of Agriculture | T.O. Kiecken B.E. Tonn | | July 1963 | Aug. 1965 | 0.5 | The purpose of this study was to detail the machinery complement; tractor opera- ting costs; develop cost and performance data of key farm machines; and to pre- sent typical tillage sequences and machine costs for cereal crops. |

ECONOMICS OF PRODUCTION (Continued)

| Title of Project | Agency | Period of Research | | | | Project Leader(s) | Brief Outline | | |
|---|--|--------------------|----------------|---------------|-----------|-----------------------------|--|--|--|
| | | Date Started | Date Completed | Professionals | Man-years | | | | |
| Economic Aspects of Farm Machinery Use in Crop Production, Reston-Cromer Area, Manitoba | Economics Branch, Canada Dept. of Agriculture. | July 1964 | April 1966 | 0.5 | | T.O. Riecken M.J. Dubois | The purpose of this study was to detail the machinery complement; tractor operating costs; develop cost and performance data of key farm machines; and to present typical tillage sequences and machine costs for cereal crops. | | |
| Saskatchewan Parkland Cattle Enterprise Study | Economics Branch, Canada Dept. of Agriculture. | July 1965 | March 1967 | 1.0 | | S.P. Burkell | The purpose of this study is to develop up-to-date input-output data for the cattle enterprise, describe organization of farms with cattle, separate costs and returns of the enterprise and examine complementary, supplementary or competition relationships. Based on a farm sample in two areas. | | |
| A Study of Farm Machinery Depreciation in Saskatchewan. | Economics Branch, Canada Dept. of Agriculture. | May 1963 | Sept. 1965 | 1.4 | | K.I. Vick | An examination was made of values of all kinds of machines found on Saskatchewan farms included in a number of past farm organization surveys. The analysis was made for basis of size, type and age with the view of determining the pattern of value depreciation decline and establishment of appropriate machine depreciation rates. | | |

| Title of Project | Agency | Period of Research | | | Project Leader(s) | Brief Outline | | |
|--|--|--------------------|----------------|---------------|------------------------------|---------------|----------------|--|
| | | Date Started | Date Completed | Professionals | | Date Started | Date Completed | Professionals |
| The Economics of Grain Farming on Prairie Farms, Saskatchewan | Economics Branch, Canada Dept. of Agriculture. | May 1965 | August 1966 | 1.3 | K.I. Vick | | | Records of grain farmers obtained in the 1960 to 1964 period were utilized to develop budgets showing the average costs and returns of wheat, oats, barley and flax on a per acre and per bushel basis. Investment and financial requirements are also shown. |
| Capital Investments, Production Costs and Yields of Commercial Potato Production in Alberta. | Economics Branch, Canada Dept. of Agriculture. | May 1964 | May 1965 | 0.5 | E.E.R. King | | | This study provides detailed farm cost data and information on organization and management practices of commercial potato farms in the two major areas of the Edmonton District and irrigation areas. Based on a sample of 80 growers selected at random stratified by region and size. |
| Alberta Cattle Feeding Study | Economics Branch, Canada Dept. of Agriculture. | Feb. 1963 | Feb. 1965 | 1.0 | D.F. Haythorne K. Elgaard | | | This is a one year enterprise study of farm cattle feed-lots in three major areas. It describes the organization and practices, costs and returns of cattle feeding. Based on a survey of 90 feed-lots operators stratified on a regional and size basis. |
| Fruit Farming Studies in Irrigation Districts of the Okanagan and all Farm Types in the Vernon Irrigation District, B.C. | Economics Branch, Canada Dept. of Agriculture. | June 1963 | May 1964 | 1.6 | B.K. Acton | | | A study of 80 farms was made covering the collection of all inputs and outputs, capital structure, and costs of production and returns. The purpose of the study was to assemble data for a benefit cost analysis of the irrigation districts for the rejuvenation of existing irrigation structures through ARDA. |

| Title of Project | Agency | Project Leader(s) | Period of Research | | Professional | Brief Outline |
|---|--|-------------------|--------------------|----------------|--------------|---|
| | | | Date Started | Date Completed | man-years | |
| A Study of the Economics of Peach Production in the South Okanagan, B.C. | Economics Branch, Canada Dept. of Agriculture. | B.K. Acton | June 1964 | Dec. 1964 | 0.8 | This was a study of the peach enterprise of growers with a substantial peach acreage to determine their costs and returns. Based on a sample survey of 22 farms. |
| A Study of Farming in Central British Columbia. | Economics Branch, Canada Dept. of Agriculture. | B.K. Acton | July 1964 | May 1965 | 2.8 | This study covered all types of farming in the general area of Prince George to Smithers including dairy, beef, mixed and part-time. The survey included 113 farms and covered all aspects of farm organization and management and factors determining success and profitability. |
| Farming in the Kootenay Area and Dairy Farming in the Peace River Area of British Columbia. | Economics Branch, Canada Dept. of Agriculture. | B.K. Acton | June 1965 | April 1966 | 3.9 | This is a farm business study of beef grain, and part-time farms in the Rocky Mountain Trench and dairy farms in the Creston and Peace River Areas. A total sample of 162 records was obtained. |
| A Study of Fruit Farming at Creston, British Columbia. | Economics Branch, Canada Dept. of Agriculture. | B.K. Acton | June 1966 | Oct. 1966 | 0.5 | This is a farm business study based on a sample of 25 fruit farms having 5 acres or more of orchard with the view of determining the practicability of an irrigation scheme in the area. |
| A Study of Cattle Finishing in the Lower Mainland and Coastal Region of British Columbia. | Economics Branch, Canada Dept. of Agriculture. | B.K. Acton | Sept. 1966 | March 1968 | 2.0 | Farm records and accounts will be kept on a selected group of farms of inputs and outputs, capital structure, and costs and returns of cattle finishing in dry lot and on farms to determine profitability. |

ECONOMICS OF PRODUCTION (Continued)

13.

| Title of Project | Agency | Project Leader(s) | Period of Research | | | Profes- sional : man-years : | Brief Outline |
|--|--|------------------------------|--------------------|------------|-------------|---|---------------|
| | | | Date | Date | Date | | |
| | | | Started | Completed | | | |
| | | | : | : | : | | |
| Farm Accounts on Grape Farms in the Okanagan and Dairy Farms in the Fraser Valley and Vancouver Island, B.C. | Economics Branch, Canada Dept. of Agriculture. | B.K. Acton | Jan. 1965 | continuous | 0.5 per yr. | This study involved the supervision and analysis of 30 farmers with accounts with the view of keeping abreast with economic conditions of the two enterprises. | |
| Costs and Returns in Producing Farm Products. | Economics Branch, Canada Dept. of Agriculture. | I.F. Furniss | May 1960 | continuous | 0.1 /yr. | A compilation of selected costs and returns data from various sources of different farm products, by area, size and type of farm. | |
| Costs and Returns from Beef Production | Economics Branch, Canada Dept. of Agriculture. | I.F. Furniss | May 1963 | March 1967 | 0.5 | Costs and returns data for different areas of Canada under varying systems of management, organization and resources. | |
| The Sheep Enterprise on Ontario Farms | Economics Branch, Canada Dept. of Agriculture. | F. Lawrence | June 1964 | June 1967 | 3.0 | A study of factors affecting profitability in sheep production based on stratified selective sample of farms. | |
| Ped Cattle Enterprise Study for Eastern Ontario | Economics Branch, Canada Dept. of Agriculture. | A.M. Poswell J.R. Cochran | July 1965 | Dec. 1966 | 1.0 | A study to measure costs, returns and profitability of feeder cattle finishing. Based on a sample of 28 farms in Eastern Ontario and Western Quebec. | |
| Agricultural and Forestry Aviation in Canada. | Economics Branch, Canada Dept. of Agriculture in cooperation with NRC and DBS. | L.E. Philpotts | May 1966 | May 1967 | 0.3 | This is a study of kinds and amount of use of aircraft for agricultural and forestry purposes based on a survey of 2,500 commercial and private aircraft operators. | |

ECONOMICS OF PRODUCTION (Continued)

14.

| Title of Project | Agency | Project Leader(s) | Period of Research Date Started Date Completed | Professional man-years | Brief Outline |
|---|--|------------------------|---|---------------------------|---|
| The Use of Aircraft in Canadian Agriculture, 1965 | Economics Branch, Canada Dept. of Agriculture. | L.E. Philpotts | Oct. 1965 March 1966 | 0.3 | This study of a sample of 1,900 aircraft operators regarding the extent of aerial distribution of pesticides, fertilizers and seeds and use of aircraft for agricultural transportation and inspection. |
| A Study of the Production of Market Hogs in New Brunswick | Extension Branch, N.B. Dept. of Agriculture. | P. Schousboe | Aug. 1964 Oct. 1964 | 0.3 | An input-output study to establish net returns of the hog enterprise and of factors affecting hog production in N.B. |
| Economic Evaluation of Strawberry Production in Nova Scotia | Farm Mgt. Division N.S. Dept. of Agriculture. | P. Gervason R.S. Eaton | Oct. 1966 Oct. 1966 | 0.2 | A study of inputs and output, and costs and returns of commercial strawberry enterprises. |
| Costs and Returns in Northern New Brunswick Agriculture. | Dept. of Agric. Econ. Macdonald College (ARDA) | C.B. Hover K.J. Joseph | June 1963 May 1966 | 1.0 | A study of inputs-outputs and profitability of farming in the area. |
| Profitability of the Cow-Calf Enterprise in Quebec | Econ. Division, Que. Dept. of Agric. in cooperation with Econ. Branch, CDA | R. Pichette | April 1965 June 1967 | 1.5 | A study to determine the minimum economic size of a cow-calf beef enterprise and the competitive relationship between beef, manufactured milk and cream production. |

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional | Brief Outline |
|---|---|---|--------------------|--|-------------------|---|
| | | | Date Started | Date Completed | man-years | |
| Problems Associated with Intra-Family Farm Transfers | Dept. of Agric. Econ. Univ. of Guelph | F.A. Wright C.F. McGregor | May 1966 | June 1967 | 0.5 | A study of problems connected with the intent and execution of intra-family farm transfers. |
| Ontario Farm Management and Accounting Project | Dept. of Agric. Econ. Univ. of Guelph in coope- ration with Farm Econ. Coop & Statistics Branch, Extension Branch, Ont. Dept. of Agric. | D.H. Plaunt | Jan 1946 | con- tinuing | 0.4 /yr. | The supervision and analysis of about 1,000 farm accounts to ascertain the factors and profitability of farming in Ontario. |
| National E.D.P. Mail-In Farm Records and Management System | Depts. of Agric. Econ. Univ. of Guelph, Sask. and Laval; Econ. Branch, V. Gilchrist CDA; Farm Credit Corporation; and Agric. P.A. Wright Econ. Research Council | D.H. Plaunt R.C. Nicholson B. Dumois K. Keeler | Jan. 1963 | Jan. 1968 and conti- nuing | 5.0 | An evaluation of the various farm account- ing systems that exist in Canada and the development of a national system inclu- ding an operational data bank and retrie- val program. Program designed to obtain a continuous monthly flow of physical and financial input-output information from farmers and the computerization of farm record analysis. The system includes the collection, recording, processing, analysis, storage of farm management data and a feed-back report to farmers. A source of data for research. |

ECONOMICS OF PRODUCTION (Continued)

16.

| Title of Project | Agency | Period of Research | | | | Project Leader(s) | Brief Outline | | |
|---|--|--------------------|----------------|---------------|-------------------|----------------------------|---|--|--|
| | | Date Started | Date Completed | Date | Profes- sional | | | | |
| | | | | | | | | | |
| Income Comparison of Cream Producers and Industrial Milk Producers in Ontario | Dept. of Agric. Econ. Univ. of Guelph in coope- ration with Ont. Cream Producers Marketing Board and Ont. Creamymen's Ass'n. | May 1966 | | Dec. 1966 | 0.3 | P.A. Wright | A specific examination of the business organization of cream shippers selected from the Ontario Farm Management and Accounting Project. | | |
| Current Farm Income Problems in Canada. | Dept. of Agric. Econ. Univ. of Guelph | May 1964 | | Sept. 1965 | 0.2 | B.B. Perkins | This aim of this study examines the causes and measure the importance of income problems in Canadian Agriculture. | | |
| The Competitive Position of Selected Types of Beef and Hog Enterprises in Western Ontario Beef-Hog Farms | Dept. of Agric. Econ. Univ. of Guelph | May 1964 | | March 1966 | 1.2 | G.I. Trant W.A. McBride | Determination of competitive position of different kinds of beef and hog enterprises of three size groups under different levels of mechanization in Grey and Bruce Counties. | | |
| Economics of Swine Production in Ontario | Dept. of Agric. Econ. in coope- ration with the Dept. of Animal Science, Univ. of Guelph | Jan. 1965 | | May 1966 | 1.5 | G.I. Trant W.A. McBride | An estimation of production functions for large hog farms to indicate the most profitable resource combination. | | |

ECONOMICS OF PRODUCTION (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- | Brief Outline |
|---|---|----------------------------|--------------------|----------------|-----------|---|
| | | | Date Started | Date Completed | sional | |
| | | | | | man-years | |
| A Production Response Surface for Proilers in Ontario | Dept. of Agric. Econ. Univ. of Guelph in cooperation with W. Ont. Agric. School at Ridgerton; Dept. of Poultry Science, Univ. of Guelph; and Physics Dept. Wellington College | G.I. Trant W.A. McBride | Feb. 1966 | Jan. 1967 | 1.0 | A study to develop a production response surface for broilers for different energy and protein levels with special attention to time and quality factors. Determination of least cost and most profitable broiler feeder rations based on experiments at Ridgerton. |
| Value Productivity of Farm Labor in Ontario | Dept. of Agric. Econ. Univ. of Guelph | G.I. Trant | Jan. 1965 | March 1966 | 0.8 | A study to estimate the monthly on-farm earnings of labor on different sized of crop and livestock farms. |
| Burley Tobacco in Ontario: Production Costs, Returns and Management Practices | Farm Econ. Coop and Stat. Branch, Ont. Dept. of Agric. and Food | G.A. Fisher | Jan. 1963 | Oct. 1966 | 2.0 | A study of the tobacco enterprise on 185 farms in Essex and Kent Counties in 1963 and 1964 as to production yields and methods, investment, costs and returns. |

| Title of Project | Agency | Project Leader(s) | Period of Research | | Professional | Brief Outline |
|--|---|---------------------|------------------------|-------------------------|--------------|--|
| | | | Date Started | Date Completed | man-years | |
| Swine Production: Costs, Returns and Management Practices, Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. & Food | J.R. Stephens | April 1962 | Sept. 1965 | 1.5 | An enterprise study to evaluate and compare management factors and production practices, and determine costs and returns for three swine enterprise types. |
| The Feasibility of Maple Syrup Production in the West-Kenfrew and North Hastings Area, Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. & Food | H. Weijs M. Huff | March 1965 | Oct. 1965 | 0.5 | An investigation of the feasibility of a profitable farm maple syrup enterprise including capital requirements, extension needs and potential. |
| Revision of Farm Business Management Handbook, Ontario | Farm Econ. Coop. & Stat. Branch and Extension Branch, Ont. Dept. of Agric. & Food in cooperation with Dept. of Agric. Econ. Univ. of Guelph | R.G.F. Hill | June 1966 Nov. 1964 | Sept. 1966 June 1965 | 0.9 1.5 | Involved the updating of material and format of the handbook as a reference source for Extension and farm management specialists. |
| Apple Production in Ontario: Costs, Returns and Management Practices | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. & Food in cooperation with Ont. Fruit & Vegetable Grower's Ass'n. | W.J. Dillon | 1958 | Oct. 1966 | 1.5 | A study of costs and returns of the apple enterprise and delineation of relevant management practices and factors. |
| Costs of Storing and Handling Corn Silage, Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. & Food | D. Nicolson | Sept. 1962 | Feb. 1964 | 0.6 | Costs involved in harvesting, storing and handling of corn silage in silos of varying size. |

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional | Brief Outline |
|---|---|-------------------|--------------------|-------------------|-------------------|--|
| | | | Date Started | Date Completed | man-years | |
| Ontario Beef Business Study | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. & Food | R.C. Ward | June 1964 | Nov. 1964 | 0.3 | An analysis of three main types of beef cattle enterprises in Western and South western Ontario in terms of different combinations of feed, capital, labor and management. Determination of costs and returns. Data extracted from Ontario Farm Account books. |
| Dairy Specialty Farms in Ontario, Costs and Returns | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | M. Csaba | April 1963 | Dec. 1964 | 0.5 | An analysis of 340 fluid milk farms in terms of resources used, costs and returns. Development of production and financial standards for Farm Management Handbook. |
| Poultry (Laying Hens) Enterprises in Ontario, Costs and Returns | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | M. Csaba | Jan. 1963 | March 1964 | 0.6 | A farm enterprise study of laying flocks of medium size. Data extracted from Ontario Farm Account books. |
| D.H.I.A. Dairy Herd Costs Study, Ontario | Farm Econ. Coop. & Stat. Branch in cooperation with Livestock Branch, Ont. Dept. of Agric. & Food | F. Barnes | 1949 | conti- nuous | 0.6 /yr. | A production and financial study of D.H.I.A. farms. An analysis of produc- tion trends, input-output relations, and dairy herd costs especially costs of producing fluid milk. |

| Title of Project | Agency | Project Leader(s) | | Period of Research | | Professional | Brief Outline |
|---|---|-------------------|---|--------------------|------------|--------------|---|
| | | : | : | Date | Date | ional | |
| : | : | : | : | Started | Completed | : | : |
| : | : | : | : | : | : | man-years | : |
| Fruit Farms Business Analysis in Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food. | W.J. Dillon | | Oct. 1965 | Feb. 1966 | 0.2 | An analysis cost and returns and enterprise data of a sample of 25 fruit farms. |
| Greenhouse Crops: Production Costs and Returns, Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food. | G.A. Fisher | | Nov. 1964 | July 1966 | 0.5 | Determination of costs, returns and other financial analysis of growing of tomatoes and cucumbers under glass and plastic for different sized enterprises. Based on a sample of 10-12 greenhouse farmers with 75% of income from these sources. |
| Onion Costs Study, Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | W.J. Dillon | | Feb. 1966 | April 1967 | 0.5 | Of A cost production study of onions in the Holland Marsh and a comparison with carrot production costs on the same 20 farms. |
| Ontario Farm Account Book Project, Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food in cooperation with Dept. of Agric. Econ. Univ. of Guelph and Extension Branch, Ont. Dept. of Agric. and Food. | F. Abraham | | 1950 | continuous | 2.5 /yr. | The annual cooperation with about 1,000 farmers in farm accounting in entry of data, instruction, research and analysis, and extension. |

| Title of Project | Agency | Project Leader(s) | Period of Research | | Professionals | Brief Outline |
|---|---|-------------------|--------------------|----------------|---------------|--|
| | | | Date Started | Date Completed | | |
| Costs of Farm Machinery, Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | W.J. Dillon | Aug. 1966 | Dec. 1968 | 1.3 man-years | A study of costs of operation per hour and total machine costs by type of farm operation and machine, estimated machine life and general use by size and type of farm. Based on 10 farmers in Ontario Farm Account Book project. |
| Early Head Lettuce Production: Costs, Returns and Management Practices, Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food in cooperation with Essex County Associated Growers. | G.A. Fisher | Jan. 1964 | Oct. 1966 | 0.4 | A study to determine costs and returns; production practices; variations in these aspects and yields; provide data for budgets and farm planning to greenhouse, seeding, planting to harvest. Based on records from 8 growers. |
| Costs, Returns and Management Practices of Early Field Tomatoes for the Fresh Market, Essex County. | Farm Econ. and Stat. Branch, Ont. Dept. of Agric. and Food in cooperation with Essex County Associated Growers. | G.A. Fisher | Jan. 1964 | Oct. 1966 | 0.5 | An enterprise study of production practices, organization and financial aspects of 15 growers. |
| Production Costs and Income Trends by Type of Farm on Selected Ontario Farms | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | R.C.P. Hill | Sept. 1965 | Dec. 1966 | 0.7 | A study of 140 farmers with continuous records from 1958 to 1964; tracing trends in crop and livestock production, costs and returns, and capital needs. Determination of development pattern of the most successful operators. |

ECONOMICS OF PRODUCTION (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional | Brief Outline |
|---|--|-------------------|--------------------|-------------------|-------------------|---|
| | | | Date Started | Date Completed | man-years | |
| Grain Corn in Ontario, Production Costs, Returns and Management Practices | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | G.A. Fisher | Jan. 1958 | Dec. 1966 | 2.5 | An enterprise study in Southern and Western Ontario. Analysis of variations in production methods, yields, costs and returns. |
| Production Costs and Returns and Management Practices for Soybeans in Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | G.A. Fisher | Jan. 1957 | Dec. 1966 | 2.2 | An enterprise study in Essex County. Analysis of records from 8 growers on variations in production methods, yields, costs and returns. |
| Asparagus in Ontario, Production Costs, Returns and Management Practices | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | W.J. Dillon | Jan. 1962 | Dec. 1964 | 1.7 | A physical and financial enterprise study of asparagus on a selected number of growers in the Niagara Peninsula, Essex County and Collingwood Area. |
| White Beans in Ontario, Production Costs, Returns and Management Practices | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | G.A. Fisher | Jan. 1965 | Dec. 1968 | 0.2 /yr. | An enterprise study in Southern and Western Ontario. Analysis of farm records on variations in production methods, yields, costs and returns. |
| Sugar Beets in Ontario, Production Costs, Returns and Management Practices. | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | G.A. Fisher | Jan. 1957 | Aug. 1966 | 2.5 | An enterprise study in Southern and Western Ontario, determination of costs and returns, level and variation in production methods and yields. |

| Title of Project | Agency | Period of Research | | | Project Leader(s) | Brief Outline | | |
|--|--|--------------------|----------------|---------------|-------------------|---|----------------|---------------|
| | | Date Started | Date Completed | Professionals | | Date Started | Date Completed | Professionals |
| Cost of Production of Carrots, Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | Feb. 1966 | April 1967 | 0.5 | W.J. Dillon | Study to establish costs per acre of producing carrots in the Hill and Marsh of 20 growers; comparison with costs for producing onions on same farms; analysis of important economic factors contributing to successful production. | | |
| Production Costs, Returns and Management of Processing Tomatoes in Essex, Kent and Norfolk Counties, Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food in cooperation with Ont. Veg. Marketing Board | March 1966 | March 1969 | 0.3 /yr. | G.A. Fisher | An enterprise study of 80 farms on production methods, yields, costs and returns in Essex, Kent and Norfolk Counties. | | |
| Cost of Producing Sour Cherries, Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | Feb. 1966 | April 1968 | 0.8 | W.J. Dillon | A study of economic factors contributing to successful sour cherry production with emphasis on production methods and management, costs and returns. Based on sample survey of cherry growers in the Niagara area. | | |
| Costs, Returns and Management Practices of Grape Production, Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | 1959 | Oct. 1966 | 1.5 | W.J. Dillon | An enterprise study of grape production based on a stratified sample by region and size of enterprise for the main grape growing areas. | | |

ECONOMICS OF PRODUCTION (Continued)

24.

| Title of Project | Agency | Project Leader(s) | Period of Research | | | Profes- sional man-years | Brief Outline |
|---|---|-------------------|--------------------|------------|-----|--|---------------|
| | | | Date | Date | | | |
| | | | Started | Completed | | | |
| An Economic Classification of Farms in Eastern Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food in cooperation with ARDA (Can. & Ont.) | H.F. Noble | May 1963 | Jan. 1965 | 3.0 | The second part of a broad study of land use resources with an outline of farm classes found in area. | |
| Variations in Farm Income of Farms in Eastern Ontario by Type and Farm Class. | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food in cooperation with ARDA (Can. & Ont.) | H.F. Noble | May 1963 | Sept. 1965 | 2.3 | The third part of a broad study of land use resources to form basis of benchmark for adjustment. | |
| Variation in Farm Income of Farms in Eastern Ontario by Type and Class and An Economic Classification of Farms. | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food in cooperation with ARDA (Ont.) | H.F. Noble | May 1966 | June 1966 | 0.2 | This is a revised report of the above two combined reports. | |
| An Analysis of Farm Income | Agric. Econ. Research Council of Canada | W.J. Anderson | Jan. 1964 | Dec. 1966 | 0.4 | A comparison of labor income by regions for the farm and non-farm sectors of the economy including a breakdown of farm income and costs. | |

CONCISES OF PRODUCTION (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Professionals | Brief Outline |
|---|--|-----------------------------------|--------------------|-----------|---------------|--|
| | | | Date | Date | | |
| | | | Started | Completed | | |
| | | | Man-years | | | |
| An Analysis of Farm Income | Economic Council of Canada | L.C. Allen | June 1967 | Oct. 1967 | 1.0 | A study to gain a full understanding of changes taking place in income of workers in agriculture, in terms of averages and distribution. Related to the effects of economic growth in general on the agricultural sector. |
| Farm and Farm Family Income, Farm Expenditures and Resources in Canadian Agriculture. | Agriculture Division, DBS; in cooperation with Econ. Branch, Canada Dept. of Agriculture | J.M. Fitzpatrick R.H. Campbell | July 1964 | June 1966 | | This study and report describes the characteristics and determines the levels of income received by farm families from farm and non-farm sources; provides a detailed picture of farm expenditures and resource combinations by geographic regions and types of farm holdings. Data derived from the probability same of farm holdings in the 1958 farm expenditure and income survey. |
| Commercial Fertilizer Inquiry, Saskatchewan | Agric. Div. DBS., in cooperation with Sask. Dept. of Agric. | W.L. Porteous E.D. Evans | Nov. 1966 | Feb. 1967 | 0.3 | A study of the amount and effect of fertilizer use by crops in Saskatchewan in 1966. Data obtained as part of mail summerfallow-stubble yield questionnaire sent to all farmers in the province. |

| Title of Project | Agency | Period of Research | | Project Leader(s) | Date | | Profes- sional man-years | Brief Outline |
|--|---|--------------------|--------------|-------------------|-------------|-----------|--------------------------------|---|
| | | Started | Completed | | Started | Completed | | |
| A Study of Comparative Advan- tage Among Agricultural Enter- prises in New Brunswick and Nova Scotia. | Atlantic Develop- ment Board and D.W. Carr & Associates in cooperation with N.B. and N.S. Depts. of Agriculture. | D.W. Carr | June 1966 | Dec. 1967 | 2.0 | | | A study to provide a comparative analysis of agricultural enterprises in terms of inputs and outputs, or by resources and net incomes. |
| Western Manitoba Farm Business Association | Dept. of Agric. Econ. Univ. of Manitoba | G.A. Ackerman | 1961 | conti- nuing | 1.5 /yr. | | | Project includes the supervision of farm accounts for 75 farmers in the Associa- tion and the analysis, preparation of an annual report, and farm management advice. A complete annual accounting of the farm business in terms of physical and financial organization, crop use, livestock, labor, income, costs and returns. Provides production economics research data, teaching and extension information. |
| Carman District Farm Business Association | Dept. of Agric. Econ. Univ. of Manitoba | J.P. Hudson | 1957 | conti- nuing | 1.5 /yr. | | | Project includes the supervision of farm accounts for 75 farms in the Association and the analysis, preparation of an annual report, and farm management advice. A complete annual accounting of the farm business in terms of physical and financial organization, crop use, lives- tock, labor, income, costs and returns. Provides production economics research data, teaching and extension informa- tion. |

ECONOMICS OF PRODUCTION (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | | Brief Outline |
|--|---|----------------------------|--------------------|------------|-----------|---|
| | | | Date | Date | Profes- | |
| | | | Started | Completed | sional | |
| | | | : | : | man-years | |
| Seasonal Price and Production Variation of Selected Agricultural Products in Manitoba | Dept. of Agric. Econ. Univ. of Manitoba | M.H. Yeh | May 1962 | Aug. 1964 | 0.5 | A computation of twelve seasonal indexes with the view of keeping farmers to make better decisions on changes in breeding and feeding practices to realize greater returns through higher seasonal price. Also provide information to those engaged in marketing of cattle, calves, hogs and sheep in Manitoba. |
| Principles and Practices of Commercial Farming in Manitoba | Faculty of Agric. Univ. of Manitoba and Geography Dept. Univ. of Manitoba (A Committee) | | July 1962 | Sept. 1965 | 3.5 | The object of this project was to collate and analyze economic and technical data relative to operation of a farm business. These data are incorporated into a reference handbook for research and extensive purposes. |
| Farm Size and Economics of Scale in Agriculture | Dept. of Agric. Econ. Univ. of Manitoba | J.C. Gilson H. Walker | Sept. 1961 | Sept. 1964 | 1.2 | A case study of grain farms in Manitoba with particular attention to size and scale factors associated with various enterprises and the implications for the family farm. |
| Optimum Combination of Livestock Enterprises for a Model Farm on Waskada Soils, Manitoba | Dept. of Agric. Econ. Univ. of Manitoba in cooperation with Man. Dept. of Agric. and Conservation | J.C. Gilson J. Jeanneau | Sept. 1963 | May 1965 | 0.8 | A case study with the objective of determining the optimum combination of enterprises as a benchmark of profitable livestock production |

| Title of Project | Agency | Project Leader(s) | Period of Research: | | Brief Outline |
|---|--|--------------------------|---------------------|----------------|---|
| | | | Date Started | Date Completed | |
| | | | | | |
| Farm Records Analysis: General and Crops, Reef, Swine and Dairy Enterprises. | Economics and Publication Branch, Man. Dept. of Agric. and Conservation | W.L.K. Johnson and staff | 1962 | continuing | An annual analysis and report of records of members of Farm Business Groups carried out through Agricultural Representatives. Included 215 farms in 1965. A study of farm organization, costs and returns and efficiency factors. |
| Economics of Production and Marketing of Eggs in Saskatchewan | Econ. and Stat. Branch, Sask. Dept. of Agric. | N. Bray | April 1965 | Nov. 1966 | A study of costs and returns from egg production with the view of establishing economic size of unit, comparative advantage and total potential for production, and credit restrictions. Examination of all aspects of production, channels of marketing, and processing. Based on sample of 50 egg producers, and information from handlers, processors and others involved in trade channels. |
| Revision of Farm Management Section in "Guide to Farm Practice in Saskatchewan" | Econ. & Stat. Branch, Sask. Dept. of Agric. in cooperation with Revision Committee | D. McRorie N. Bray | Oct. 1965 | May 1966 | A budget analysis of ten different livestock enterprises and determination of size of unit to assure an adequate family income. |

| Title of Project | Agency | Project Leader(s) | Period of Research | | Professionals | Brief Outline |
|--|--|---|--------------------|----------------|---------------|--|
| | | | Date Started | Date Completed | | |
| Dairying Costs and Returns in Saskatchewan, 1965 | Econ. & Stat. Branch, Sask. Dept. of Agric. | S.H. Barber | 1964 | continuing | 0.5 /yr. | A study of costs and returns of producing milk and relative importance of each component cost. Includes dairy enterprises in Regina and Saskatoon milk sheds. |
| Crop Yield and Quality on Certain "Benchmark" Soils as Related to Environmental and Soil Variables; Determination of Economic Optima | Univ. of Alberta and Can. Dept. of Agric. in cooperation with Alberta Federated Cooperatives and Alberta Agricultural Research Trust | H.C. Love G.R. Webster J.A. Robertson D. McBeath | April 1964 | Dec. 1970 | 2.0 /yr. | A study to measure the importance and interaction of environmental and soil variables on barley yields at five levels of fertilizer ingredients (NPK) and to make economic recommendations. Confined to Black and Dark Grey wooded Soils of Alberta. |
| An Investigation of Economics of Scale for Selected Combinations of Farm Machinery in Southern Alberta. | Dept. of Agric. Econ. Univ. of Alberta | H.C. Love K.E. Miller | June 1965 | June 1967 | 1.0 | A study of economics ^{of} scale of five machinery combinations related to size and power of tractor and associated implements used in wheat production in terms of operating costs per acre. |
| Derivation of Fertilizer Production Functions and Economic Optima in Alberta | Depts. of Agric. Econ. and Soil Science, Univ. of Alberta | H.C. Love G.R. Webster J.A. Robertson | Oct. 1962 | Sept. 1966 | 4.0 | A study to improve the fertilizer recommendations with particular reference to economics of use in the Black and Dark Grey wooded Soils of Alberta. Based on experimental data from 1959 to 1962. |

ECONOMICS OF PRODUCTION (Continued)

30.

| Title of Project | Agency | Period of Research | | Project Leader(s) | Profession | Brief Outline |
|--|--|---|----------------|-------------------|------------|--|
| | | Date Started | Date Completed | | | |
| | | | | | man-years | |
| Deviation of Fertilizer Production in the Edmonton Area, Alberta | Depts. of Agric. Econ. and Soil Science, Univ. of Alberta in cooperation with Alberta Agricultural Research Trust and Alta. Federated Cooperatives | H.C. Love G.R. Webster J.A. Robertson | Aug. 1963 | Sept. 1966 | 6.0 | A study to improve the fertilizer recommendations with particular reference to economics of use. Based on experimental data from 30 sites in the Edmonton area for the barley crop on Black and Dark Grey Wooded Soils. |
| Rates of Technological Changes in the Alberta Dairy Industry | Dept. of Agric. Econ. Univ. of Alberta | G.R. Winter | Sept. 1964 | Sept. 1966 | 0.3 | A study of rates of technical advance and associated factors based on a sample of dairy farms in the Edmonton milk shed, 1940-1964. An econometric model. |
| Production Economics of Peas in Alberta | Agric. Econ. Division Alta. Dept. of Agric. | K.D. Porter | May 1964 | May 1965 | 0.5 | An enterprise study of cultural practices; income, costs and returns; and marketing procedures on 36 farms in the irrigation areas of Southern Alberta. Relates to an economic evaluation of the grower's position in the production of canning and freezing peas. |
| Oil Seeds and Wheat in Alberta | Agric. Econ. Division, Alta. Dept. of Agric. | K.D. Porter | Jan. 1961 | Jan. 1964 | 2.0 | A study of 104 farms dealing with cultural practices; income, costs and returns; and marketing procedures. Areas involved were Southern Alberta Irrigation and Dryland; Central Alberta Dryland; and Northern Alberta Dryland. |

| Title of Project | Agency | Period of Research | | | | Project Leader(s) | Profes- sional man-years | Brief Outline |
|--|---|--------------------|-----------------|-----------|--------------|-------------------|--|---------------|
| | | Date | | Completed | | | | |
| | | Started | | | | | | |
| | | | | | | | | |
| Economics of Production of Fresh Vegetables in Alberta | Agric. Econ. Div. Alta. Dept. of Agric. | May 1962 | May 1965 | | K.D. Porter | 1.5 | A study of 19 farms producing fresh vegetables under irrigation dealing with cultural practices, income, costs and returns, and marketing procedures. | |
| Economics of Production and Marketing of Table Eggs | Agric. Econ. Div. and Poultry Branch, Alta. Dept. of Agric. | Feb. 1961 | April 1966 | | G.R. Keay | 2.8 | An enterprise study of 16 commercial egg farms for the period 1961-1964 to determine costs and returns of pro- duction and marketing costs of commer- cial eggs. A special account book was developed which includes production and as well as financial data. | |
| Cost of Production of Milk Studies | Agric. Econ. Div. Alta. Dept. of Agric. and Alta. Milk Control Board | May 1958 | conti- nuous | | B.J. McBain | 0.5 /yr. | Detailed study and analysis of produc- tion factors and costs and returns of milk producers in the Edmonton, Calgary, Lethbridge, and Medicine Hat milksheds. Intensive use of farm accounts for policy purposes and extension. | |
| Cost of Production of Rasp- berries in the Abbotsford Area, B.C. | Dept. of Agric. Econ. Univ. of B.C. | Sept. 1965 | May 1967 | | M.J. Dorling | 0.5 | A cost of production study with an ac- count of market procedures and an outlook for the industry in the light of supply and demand structures. | |

ECONOMICS OF PRODUCTION (Continued)

32.

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional | Brief Outline |
|---|---|------------------------------|--------------------|-------------------|-------------------|--|
| | | | Date Started | Date Completed | man-years | |
| Cost of Production of Certain Nursery Enterprises in the Lower Mainland and Vancouver Island Area in B.C. | Dept. of Agric. Econ. Univ. of B.C. with Farm Management Div. B.C. Dept. of Agric. | M.J. Dorling | Sept. 1965 | May 1967 | 0.5 | A study concerned mainly with costs of production of certain nursery enterprises. These data along with supply and demand information will be used to assess the competition position of the nursery industry in B.C. |
| An Economic Evaluation of the Operation of the University Research Farm at Cyster River and Some Alternative Enterprise Combinations. | Dept. of Agric. Econ. Univ. of B.C. | M.J. Dorling J.J. Richter | Sept. 1963 | May 1965 | 0.5 | An examination of farm organization and management of the University Research Farm. The present resource use efficiency is assessed and compared with a normative situation consisting of five linear programming analyses. |
| Area Estimates of Farm Cash Income in Saskatchewan | Economic Advisory and Planning Board, Govt. of Sask., and ARDA (Canada) | M.G. Brown | June 1963 | March 1964 | 0.7 | The development of estimates of farm cash income and per farm averages by rural municipalities and improvement districts. These data were largely derived from records of grain sales, C.W. Board payments and livestock sales based on D.B.S. estimates of livestock populations. |
| Report of Marketing of Farm Products in Newfoundland | Newfoundland Dept. of Mines, Agriculture and Resources in cooperation with ARDA | | June 1964 | March 1966 | 1.0 | An investigation of the production and marketing of potatoes, cabbage and turnips. Includes a short description of the farming areas, costs of production, trends on production and market recommendations. |

ECONOMICS OF PRODUCTION (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Professional | Brief Outline |
|--|--|-----------------------------|--------------------|----------------|--------------|--|
| | | | Date Started | Date Completed | man-years | |
| An Economic Evaluation of Fertilizer Use Recommendations | Dept. of Agric. Econ. in cooperation with Dept. of Soil Science, Univ. of Sask. | R.C. Nicholson | Sept. 1966 | Sept. 1968 | 1.5 | An examination of existing research findings from fertilizer trials and evaluation of results by regression analysis or development of functional relationships where data permitted. Study designed to illustrate the possible gains from an interdisciplinary approach to research in Agriculture. |
| Development and Operation of an E.D.P. Mail-In Farm Accounting System for Saskatchewan Farmers | Dept. of Agric. Econ. Univ. of Sask. in cooperation with Farm Management Division and Ag. Rep. Service Sask. Dept. of Agric. | R.C. Nicholson J.L. Drew | Jan. 1963 | continuing | 0.2 /yr. | This project involves the development and operation of an electronic data processing mail-in farm record system that is suitable for Saskatchewan farmers. The project at the University is limited a group of 50 farmers and is experimental, awaiting the developing national system. |
| Systematic Preparation of Livestock Feed Formula Using the Computer: A Linear Programming System for Commercial Feed Manufacturers | Dept. of Agric. Econ. Univ. of Sask. | R.C. Nicholson | 1964 | 1968 | 0.1 /yr. | A demonstration of the use of the computer and linear programming as a practical method of obtaining least cost rations for feed manufacturers. |

ECONOMICS OF PRODUCTION (Continued)

34.

| Title of Project | Agency | Period of Research | | | Project Leader (s) | Profes- | | | Brief Outline |
|---|---|--------------------|-----------------|------------|------------------------------|----------|-------------|------------|---|
| | | :Date | :Date | :Completed | | :Started | :sional | :man-years | |
| 1.3 <u>Farm Finance</u> | | | | | | | | | |
| Manitoba Farm Land Values | Economics Branch, Canada Dept. of Agriculture | 1958 | 1964 | | L.M. Johnson T.O. Riecken | | 2.0 | | A survey of prices paid for farm land in Manitoba during the period of 1956-1961. |
| Farm Credit Study | Econ. Branch, Canada Dept. of Agriculture | Jan. 1964 | Dec. 1966 | | R.S. Rust J.R. Cochran | | 0.6 | | A sample survey of farmers by type to indicate credit needs, use and availability. |
| Farm Credit Legislation | Econ. Branch, Canada Dept. of Agriculture | May 1964 | Nov. 1966 | | R.S. Rust | | 0.1 | | A non-technical summary of all farm credit legislation in Canada and a reference of essential features. |
| The Source and Amount of Long, Intermediate and Short Term Farm Credit | Econ. Branch, Canada Dept. of Agriculture | May 1962 | Dec. 1966 | | R.S. Rust | | 0.4 | | This is a compilation and estimate of total annual credit extended to Canadian farmers from various sources and an estimate of total farm debt. |
| Appraisal of Actuarial Structure of Present and Proposed Crop Insurance Programs and Related Matters | Econ. Branch, Canada Dept. of Agriculture | 1959 | conti- nuous | | R.S. Rust | | 0.6 /yr. | | This involves periodic inspections and checks of provincial crop insurance programs respecting the establishment of sound schemes as required in the Crop Insurance Act and to assure the public interests and financial contributions of Canada. |

| Title of Project | Agency | Project Leader(s) | Period of Research | | | Brief Outline |
|---|---|---------------------------------------|--------------------|-----------|-----------|---|
| | | | Date | Date | Profes- | |
| | | | Started | Completed | sional | |
| | | | : | : | man-years | |
| A Forecast of Participation, Liability and Premiums that may be Experienced in an Ontario Crop Insurance Program | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | M. Huff E. Haslett H. Weys | Oct. 1965 | Oct. 1965 | 0.2 | An estimate of the financial aspects of the operation of a probable crop insurance program by Government of Ontario. |
| Feasibility of Crop Insurance in Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | H. Weys E.A. Haslett A. Hashimi | June 1965 | Aug. 1965 | 1.3 | A review of crop insurance programs in the U.S.A. and Western Canada, principles and risks due to yield variability. Determination of some general guidelines for government crop insurance in Ontario. |
| An Investigation of the Feasibility of a Hail Crop Insurance Program in Manitoba | Dept. of Agric. Econ. Univ. of Manitoba in cooperation with Manitoba Crop Insurance Corporation | M.H. Yeh R. Chychota | May 1965 | Aug. 1966 | 1.0 | The objective of this study was to look into the feasibility of separating hail coverage from the present all hazard crop loss coverage offered by the Corporation. |
| An Economic Analysis of Crop Insurance Coverage on Farms in the Russell and Silver Creek Municipalities, Manitoba | Dept. of Agric. Econ. Univ. of Manitoba in cooperation with Manitoba Crop Insurance Corp. | J.C. Gilson B.E. Owen | May 1965 | Aug. 1966 | 0.8 | A study of crop insurance relative to type of protection required by farmers; variation in type and amount of protection by farm type; assessment of adequacy of present coverage; and cost of insurance at various levels of coverage. |

| Title of Project | Agency | Project Leader(s) | Period of Research | | | Profes- sional man-years | Brief Outline | | | |
|---|--|------------------------------|--------------------|--------------|-------------|--|---------------|---------|-----------|-----------|
| | | | Date | Date | Date | | | | | |
| | | | | | | | | Started | Completed | Completed |
| | | | | | | | | | | |
| Capital Accumulation and Its Implications for the Family Farm | Dept. of Agric. Econ. Univ. of Manitoba with Carman District Farm Business Ass'n. | J.C. Gilson I.P. Friedgut | July 1963 | Dec. 1966 | 1.7 | An analysis of the nature and extent of capital accumulation within a selected group of farms over a seven year period. | | | | |
| Land Values in Saskatchewan | Econ. & Stat. Branch, Sask. Dept. of Agric. | J.A. Brown | annual survey | | 0.1 /yr. | An annual examination of the current land market and trends in values by crop districts based on 4,000 returns from crop correspondents. | | | | |
| Saskatchewan Land Values | Econ. & Stat. Branch, Sask. Dept. of Agric. | S.H. Barber | March 1966 | Nov. 1966 | 0.5 | A guide to land values based on a broad sample of actual land sales in 1965. Data obtained through Farm Credit Corporation, banks and public auction sales. Correlation of land values with soil productivity index, location, size of parcel and other factors. | | | | |

2. MARKETING, DISTRIBUTION AND TRADE

| Title of Project | Agency | Period of Research | | Project Leader(s) | Profession | | Brief Outline |
|---|--|--------------------|----------------|---------------------------------------|--------------|----------------|--|
| | | Date Started | Date Completed | | Date Started | Date Completed | |
| 2.1 Meat Organization and Structure Hog Marketing Board Operations in Nova Scotia | Economics Branch, CDA in cooperation with Nova Scotia Dept. of Agric. | March 1965 | May 1965 | G.C. Retson S. Nichols D. Smith | 0.1 | | Investigation confined to restricted number of specific problems including marketing costs, transportation and allocation of hogs to packing plants. |
| The Canadian Poultry Meat Industry and Vertical Inte- gration | Economics Branch, Canada Dept. of Agriculture | May 1964 | April 1966 | J.T. Hill | 0.7 | | This study deals with the extent of ver- tical integration in the industry, the reasons for its development and its effects on production, prices and dis- tribution of the product. It also describes and analyzes the degree of concentration of firms in each sector. |
| Branch Line Rationalization Prairie Railway Network | Economics Branch, CDA in cooperation with Geographical Branch, Dept. of Energy, Mines & Resources | Feb. 1964 | March 1967 | J.W. Channon A.W. Burgess | 7.5 | | Assembly and analysis of data pertinent to and facilitation of a rational prairie rail line abandonment program. |
| Survey and Analysis of Produ- cer Marketing Boards in Canada | Economics Branch, Canada Dept. of Agriculture | Oct. 1965 | Oct. 1966 | G.A. Hiscocks | 1.2 | | A study of the present structure, orga- nization and economic results of all marketing boards. |
| Monopsony in Canada's Primary woods Industry | Dept. of Agric. Econ. Macdonald College in coo- peration with External Aid Office | June 1966 | May 1967 | C.B. Haver K. Mey | 1.0 | | An examination of the economic effects of monopsony in the wood and wood pro- ducts industry as it affects farm wood- lot and small lot owners. |

MARKETING, DISTRIBUTION AND TRADE (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Professional Signal | Brief Outline |
|--|---|---------------------------------|--------------------|----------------|------------------------|--|
| | | | Date Started | Date Completed | | |
| | | | | | man-years | |
| Production and Marketing of Potatoes in the Saguenay Region, Lac St. Jean, Quebec | Econ. Division, Que. Dept. of Agric. | P. Bolduc | Feb. 1966 | March 1968 | 1.3 | A survey of the potato farm enterprise with a focus on storage, processing and marketing and evaluating possibilities of intensifying production. |
| Structural Changes in the Production of Tomatoes for Processing with Particular Reference to Marketing Board Policies | Dept. of Agric. Econ. Univ. of Guelph | R.G. Marshall | April 1964 | Sept. 1966 | 0.6 | Purpose of study is to examine and evaluate the changing characteristics of the tomato for processing industry in Ontario and the relation of these changes to marketing board pricing policies. |
| Distribution of Shell Eggs in Ontario | Dept. of Agric. Econ. Univ. of Guelph in cooperation with Ont. Egg and Fowl Producers marketing Board | J.B. Britney T.R. Jones | April 1965 | Nov. 1966 | 0.7 | Construction of a model of shell egg market distribution channels and evaluation of their effectiveness in pricing. |
| An integer Linear Programming Model Applied to Storage Facilities with Special Reference to a Multi-Product Milk Plant | Dept. of Agric. Econ. Univ. of Guelph | W.M. Braithwaite R.C. Wagner | May 1965 | June 1966 | 0.5 | An investigation of storage facilities of a multi-product milk plant in terms of critical resources and time restraints for optimum resource use. |

MARKETING, DISTRIBUTION AND TRADE (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Professional | Brief Outline |
|---|---|--------------------------------------|--------------------|----------------|--------------|--|
| | | | Date Started | Date Completed | man-years | |
| Milk Transportation in Ontario | Dept. of Agric. Econ. Univ. of Guelph | G.I. Trant G.S. Nelson | Sept. 1965 | Dec. 1966 | 0.8 | A regression and linear programming analysis of data of transportation rates, origin and destination of milk shipments and volume of interplant transfers with the view of rationalizing a fluid milk transportation system in Central and Western Ontario. |
| A Study of the Marketing of Fresh Fruits and Vegetables in Metropolitan Toronto | Farm Econ. Coop. and Stat. Branch, Ont. Dept. of Agric. in cooperation with Econ. Branch, CDA | L.C. Rayner S.F. Kidd H. Weijs | July 1963 | Nov. 1964 | 2.2 | This study provides a description and assessment of these markets; identifies changes which have taken place and discusses probable changes. It was made to assist the Ontario Food Terminal Board in determining the need for expansion. The flow of produce of each is traced through the distribution system. |
| Adequacy of Facilities at the Ontario Food Terminal, Toronto | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | H. Weijs M. Huff | Jan. 1965 | March 1965 | 0.8 | This study is a sequel to the above study by relating the trends in volume of marketings, and capacity of facilities to the extent of expansion needed. |
| Importance of Marketing Legislation in Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | A. Contini | Jan. 1965 | Jan. 1965 | 0.1 | A report with statistics on Ontario farm marketing boards. |

MARKETING, DISTRIBUTION AND TRADE (Continued)

40.

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional man-years | Brief Outline |
|---|--|---------------------------|--------------------|-------------------|--------------------------------|---|
| | | | Date Started | Date Completed | | |
| An Economic Analysis of the Feed Freight Assistance Policies | Agric. Econ. Re- search Council of Canada | T.C. Kerr | May 1964 | June 1966 | 2.0 | A study to assess the impact of the feed freight assistance program upon Agri- culture in the various regions of Canada; and the effects on the comparative advantage of feed grain and livestock production areas. Published report no. 7 (AERC) |
| The Transportation of Feed Grain | Agric. Econ. Re- search Council of Canada | H.V. Walker | July 1965 | Aug. 1966 | 1.0 | A study to examine the patterns of ship- ments of feed grains between regions in Canada in relation to minimum cost. |
| Economic Study of Grain Trade of Atlantic Ports. | Hedlin, Menzies and Associates for Atlantic Develop- ment Board | M.W. Menzies | Feb. 1965 | July 1965 | 0.6 | An examination of the feasibility and means for increasing the grain traffic through Halifax, Saint John and other relevant ports, recommendations re the nature and location of any desirable changes in or additions to grain handling facilities, with an analysis of expected benefits and associated costs. |
| Spatial Competition and Division of Grain Receipts Between Country Delivery Points | Dept. of Agric. Econ. Univ. of Manitoba | O.P. Tangri B. Riordan | Sept. 1962 | Aug. 1964 | 1.0 | A study to provide a basis for estimating the future grain receipts at country delivery points in the event of some delivery points being closed as a result of the proposed railway line aban- donment, or other reasons. |

MARKETING, DISTRIBUTION AND TRADE (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Professional | Brief Outline |
|--|---|--|--------------------|----------------|--------------|---|
| | | | Date Started | Date Completed | | |
| The Cost of Handling and Storing Grain in Manitoba's Country Grain Elevators | Dept. of Agric. Econ. Univ. of Manitoba | O.P. Tangri D. Zasada | May 1964 | Aug. 1966 | 1.0 | A regression analysis of operations of three elevator companies on the costs of handling and storing grain in country grain elevators. |
| Economics of Scale in Packing Manitoba Table Potatoes | Dept. of Agric. Econ. Univ. of Manitoba | O.P. Tangri G. Stone | Sept. 1963 | Oct. 1966 | 1.0 | A Study of Manitoba vegetable packing plants to determine the cost of each service involved in preparation of local produce for sale and the most efficient and optimum size and location of firms to provide these services. |
| An Economic Analysis of Grain Storage in Farms | Dept. of Agric. Econ. Univ. of Manitoba in cooperation with Agric. Econ. Research Council | A.W. Wood G. Zilkey | May 1965 | Aug. 1966 | 0.8 | A study of on-farm storage facility requirements; types and distribution of existing facilities; storage costs and a comparison with commercial storage charges; and an analysis of the utilization pattern of on-farm storage space. |
| Hog marketing in Saskatchewan | Econ. & Stat. Branch, Sask. Dept. of Agric. in cooperation with Sask. Dept. of Cooperation and Sask. Wheat Pool | J.A. Brown A.A. Reid R.H.D. Phillips | Oct. 1965 | Mar. 1966 | 0. | An examination of the types and nature of hog marketing in Saskatchewan and an exploration of the feasibility and desirability of establishing a hog teletype auction form of market in Saskatchewan alone or in cooperation with Manitoba and possibly Alberta. Study included production, price and market aspects of the hog industry. |

MARKETING, DISTRIBUTION AND TRADE (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Professional man-years | Brief Outline |
|---|---|-------------------|--------------------|----------------|---------------------------|--|
| | | | Date Started | Date Completed | | |
| The Developing Structure of the Saskatchewan Meat Packing Industry: A Study of Economic Welfare | Dept. of Agric. Econ. Univ. of Sask. in cooperation with Sask. Wheat Pool | H.E. Bronson | 1963 | March 1965 | 1.0 | A study of current trends in the meat packing industry; livestock production and market for meat products; structural adjustments leading to net improvements in economic welfare; analysis of industry concentration; and barriers to entry and product differentiation. Some consideration is given to prospects for entry of cooperatives into the meat packing business. |
| Simulation of Grain Assembly in Alberta | Dept. of Agric. Econ. Univ. of Alberta in cooperation with National Grain Co. | G.R. Winter | Sept. 1964 | Sept. 1966 | 0.3 | A project to determine whether simulation procedures can be used to find least cost facilities. Based on information from six elevator points and use of computer simulation queuing model. |
| Cattle Marketing Practice in Alberta | Dept. of Agric. Econ. Univ. of Alberta and sponsored by Alberta Agric. Research Trust. | T.W. Manning | July 1966 | Sept. 1967 | 1.0 | Determination of the performance of the cattle marketing system and agencies in Alberta. Includes the role of meat packers, terminal markets, auctions, commission firms and others. |

MARKETING, DISTRIBUTION AND TRADE (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional | Brief Outline |
|---|--|-------------------|--------------------|-------------------|-------------------|--|
| | | | Date Started | Date Completed | man-years | |
| Marketing Practices of Alberta Livestock Auctions | Dept. of Agric. Econ. Univ. of Alberta in coo- peration with Can. Dept. of Agric. | T.W. Manning | June 1963 | Aug. 1966 | 1.5 | A study of the marketing practices of country auctions and their contri- bution to the livestock marketing system. Information on organization, facilities and operations, and com- parative price data for selected auctions and terminal markets in Alberta. |
| Market Structure and Beha- viour of the Canadian Red Meat Industry | Dept. of Agric. Econ. Univ. of Alberta with Can. Dept. of Agric. | T.W. Manning | Sept. 1966 | Sept. 1968 | 1.5 | A study of the distribution of market power amongst meat packers, wholesalers and retailers in Canada. Market struc- ture analysis of bargaining procurement and merchandising practices. |
| Hog Marketing Practices in Alberta | Dept. of Agric. Econ. Univ. of Alberta with Meat Industry Coordinating Com- mittee of Alberta and Econ. Branch, CDA | T.W. Manning | June 1965 | Sept. 1966 | 1.5 | A study of the performance of the hog marketing system with special emphasis on the efficiency of the market pricing mechanism and the effects of various procurement methods. An aggregation of case studies of the major packers and other agencies in the framework of market structure and behaviour theory. |
| Conduct and Performance in Markets of the Food Marketing Industries in Canada | Dept. of Agric. Econ. Univ. of Alberta in coo- peration with Agric. Econ. Re- search Council | G.T. Winter | May 1965 | Sept. 1966 | 0.5 | An examination of the conduct by farmer's representatives, processors, wholesalers and retailers and how marketing enter- prises adjust to change in food markets in which they buy and sell. |

MARKETING, DISTRIBUTION AND TRADE (Continued)

44.

| Title of Project | Agency | Period of Research | | Project Leader(s) | Profes- sional | Brief Outline |
|--|---|--------------------|-------------------|---------------------------------|-------------------|---|
| | | Date Started | Date Completed | | | |
| Competition in Agriculture A Case Study of a Marketing Board | Depts. of Agric. Econ. and Agric. Extension, Univ. of B.C. | Sept. 1963 | May 1965 | J.J. Richter L.J. Fredericks | 0.5 | An analysis and a sssessment of the use of legal powers of the P.C. Fruit Board and its marketing agency, B.C. Tree Fruits Limited. It evaluates the impact of the formation of the marketing scheme upon supply, market structure and procedure. |
| Speciality Cheese Manu- facturing Feasibility Study | R.A. Willson Associates in cooperation with Man. Dept. of In- dustry and Commerce and ARDA(Can. & Man.) | April 1963 | March 1964 | | 1.0 | A review of fancy cheese consumption in Manitoba, the market and competition from imports. Determines feasibility of production of specialty cheese in the Province. |
| Feasibility of Producing and Dehydrating Onions in the Carberry Area of Manitoba | Doane Agricul- tural Services Inc. in cooperation with Can. Dept. of Industry & Commerce, and ARDA | July 1963 | March 1964 | | 0.2 | A study to determine whether onions can be economically produced in the Carberry Area and the feasibility of an onion dehydrating plant. |
| A Study of the Feasibility of Processing Dehydrated Po- tatoes and other Dehydrated Foods of P.E.I. | Stevenson and Kellogg Ltd. in coopera- tion with ARDA (P.E.I.) | Aug. 1962 | May 1964 | M.S. Moyer | 0.8 | A marketing study of cost estimates, predictions and growth potential, and the economic feasibility of building a potato dehydrating plant. |

MARKETING, DISTRIBUTION AND TRADE (Continued)

| Title of Project | Agency | Period of Research | | | | Project Leader(s) | Brief Outline | |
|---|---|--------------------|-----------|-----------|-------------|---------------------------|--|-------------|
| | | : Date | : Date | : Started | : Completed | | : Professional | : man-years |
| Esquisse Du Plan - Le Transport | Bureau d'aménagement de l'est du Québec Inc. in cooperation with ARDA (Canada and Quebec) | March 1964 | June 1965 | | | | An outline of air, water, rail and road transport in the Gaspé area, transport problems of the area, and suggested ways to improve the transportation situation, including facilities. This was one of a series of resource development studies. | |
| A Comparative Study of Marketing Boards in Canada and Kenya | Dept. of Agric. Econ. Univ. of Sask. | Sept. 1964 | Dec. 1966 | | | A.G. Wilson S.N. Hinga | An analysis of several marketing boards in both countries in relation to their effect upon the market structure within the agricultural industry. Also to determine if techniques developed in Canada can be adopted by boards in Kenya. | 1.3 |

MARKETING, DISTRIBUTION AND TRADE (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional man-years | Brief Outline |
|---|---|------------------------|--------------------|-------------------|--------------------------------|--|
| | | | Date Started | Date Completed | | |
| 2.2 Marketing Efficiency | | | | | | |
| Commercial Feedlot Study | Econ. Branch, CDA in coopera- tion with Research Branch, CDA | V.J. Miles | June 1966 | June 1967 | 1.0 | Purpose of study is to examine and eval- uate the economic feasibility of shipping slaughter cattle to the United States instead of feeder cattle. |
| Cheddar Cheese Factories in Ontario | Farm Econ. Coop. & Stat Branch, Ont. Dept. of Agric. and Food | E.A. Haslett | 1956 | 1966 | 2.0 | A detailed study of the organization and operation of cheddar cheese factories with special emphasis on analysis of production efficiency and factory costs production. |
| Weanling Pig Production and Marketing in Ontario, 1964 | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | H. Weijs A. Contini | June 1964 | June 1966 | 2.2 | A study to outline and evaluate the marketing system for weanling and feeder pigs; effects of methods of sale on quality, health and profitability of hog finishing operations, and effi- ciency of marketing-channels. Study based on sample of 400 hog producers in selected areas. |
| Inter-regional Competition in Tree Fruit Production in Canada | Dept. of Agric. Econ. Univ. of B.C. | M.J. Dorling | Sept. 1966 | Sept. 1967 | 0.8 | A study of competitive aspects of production and marketing of apples, peaches, pears and cherries in well- defined regions of Canada. |

MARKETING, DISTRIBUTION AND TRADE (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | | Brief Outline |
|---|---|------------------------------|--------------------|-----------|-----------|---|
| | | | Date | Date | Profes- | |
| | | | Started | Completed | sional | |
| | | | : | : | man-years | |
| 2.3 Demand, Supply and Prices | | | | | | |
| An Evaluation of the Price Determination Mechanism for Market Hogs in Alberta | Econ. Branch, C.D.A. in cooperation with Dept. of Agric. Econ. Univ. of Alta. | W.J. Lockhart | May 1966 | Dec. 1966 | 0.5 | The purpose of the project is to determine and describe the basic factors, both economic and non-economic, which establish actual market prices of hogs. |
| Trends in Canada's Agricultural Trade Pattern | Econ. Branch, Canada Dept. of Agriculture | F. Shefrin | June 1965 | July 1965 | 0.5 | This study reviews the trade pattern, analyzes trends and projects the pattern and level of trade for Canadian agricultural exports and imports. Covers the period from pre W. War II to present, with projections to 1970. |
| The Dairy Industry in British Columbia | Econ. Branch, CDA in cooperation with B.C. Bureau of Economics and Statistics | L.C. Rayner J.R. Meredith | Aug. 1965 | Aug. 1966 | 2.3 | A study of production, distribution and consumption of B.C. dairy products. Covers all aspects of supply and demand with purpose of forward planning by industry and government. |
| Demand and Supply for Canadian Agricultural Food Products | Econ. Branch, Canada Dept. of Agriculture | Z. Yankowsky F. Shefrin | June 1966 | Dec. 1966 | 0.3 | An estimate of the domestic and export demand in the next fifteen years and a projection of the supply to meet these needs. |

MARKETING, DISTRIBUTION AND TRADE (Continued)

48.

| Title of Project | Agency | Project Leader(s) | Period of Research | | Professional | Brief Outline |
|---|---|--------------------------------|--------------------|------------|--------------|--|
| | | | Started | Completed | ional | |
| | | | | | man-years | |
| Spatial Equilibrium Model of Potatoes Marketed in Eastern Canada | Dept. of Agric. Econ. Univ. of Guelph | M.A. McGregor J.J. Bucknall | April 1964 | June 1965 | 0.7 | An investigation of the potato market in Eastern Canada |
| Recording and Analysis of Prices of Ontario Farm Products | Dept. of Agric. Econ. Univ. of Guelph | R.G. Marshall | 1939 | continuing | 0.3 /yr. | An analysis of seasonal price and production movement of livestock and poultry products. A recording of prices, marketings and related variables. |
| An Analysis of the Regional and Seasonal Price Structures for Turkeys in Canada | Dept. of Agric. Econ. Univ. of Guelph | M.A. McGregor R. Huang | Dec. 1965 | Sept. 1966 | 0.7 | A study of the regional and seasonal differences in turkey prices, consumption and supply. |
| Pricing and Marketing Margins of Shell Eggs in Ontario | Dept. of Agric. Econ. Univ. of Guelph | J.B. Britney G.W.B. Gowa | May 1965 | Jan. 1967 | 0.7 | An analysis of marketing margins at the producer-wholesaler, wholesaler-r tail and retail-consumer levels by grade for past twenty years. |
| The Demand for Ontario Milk Production | Dept. of Agric. Econ. Univ. of Guelph | B.B. Perkins | April 1966 | June 1967 | 0.7 | The objective of the study is to estimate the effects of producer returns of alternative milk pricing policies. An analysis of market relationships and an econometric model of the milk market. |
| Statistical Tables of Sour Cherry Production and Trade, Canada and U.S.A. | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. | H. Weijts M. Huff | May 1965 | June 1965 | 0.2 | An analysis of trends in production, commercial marketings, processing, exports and domestic in each country. An outlook for the 1965 crop. |

MARKETING, DISTRIBUTION AND TRADE (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | | Profes- sional | Brief Outline |
|---|--|---------------------|--------------------|------------|-----------|--|---------------|
| | | | Date | Date | | | |
| | | | Started | Completed | man-years | | |
| Feasibility of Cheese Plant near Sault Ste. Marie, Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. | H. Weijs M. Huff | March 1965 | June 1965 | 0.3 | A study to determine economic viability of a proposed cheese plant, costs of operation, estimated market, market price and prices paid to producers and returns of milk to attract proposed plant. | |
| Beef Retailing Margins in Chain Stores | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | A. Contini | June 1965 | April 1966 | 0.8 | A study to determine the retail price margin of beef in chain stores, adequacy of this margin, assessment of margin in relation to other meats and other non-meat items. Includes determination of retail cut-out of beef. | |
| The Estimation of Demand Elasticities for Substitute Food Products. | Agric. Econ. Research Council of Canada | R.A. Holmes | May 1965 | July 1966 | 0.5 | Purpose of study was to improve the techniques of estimating price and income elasticities of agricultural products; and to estimate these for beef and pork. Published report no. 3 (AERC) | |
| The Feed Grain-Livestock Sector of Canadian Agriculture | Agric. Econ. Research Council of Canada | T.C. Kerr | July 1966 | July 1967 | 1.0 | The purpose of this research project is to quantify an econometric model of the Canadian feed grain-livestock economy with particular emphasis on inter-regional flows and price relationships for feed grain and livestock; and to identify these relationships between Canada and the United States. | |

Profes- : Brief Outline

man-years :

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|---|---|-------------------------|---------------|--------------|-------------|--|
| An Analysis of Factors Affecting Economic the Demand and Supply of Canadian Agricultural Products | Economic Council of Canada | J.A. Dawson | May 1964 | Oct. 1964 | 1.0 /yr. | An analysis of the demand for the major groups of farm products; also an analysis of agricultural produc- tion and the effects of weather, technology, labor and machinery inputs, scale of operation and other factors. |
| Changes in Agriculture to 1970 | Economic Council of Canada | J.A. Dawson | May 1964 | Oct. 1964 | 0.5 | A general review of the demand for Canadian Agricultural products and the various inputs used in Agriculture, and adjustment problems likely to be en- countered to 1970. (Staff study no. 11 and First Annual Review of Council) |
| Consumer Demand for Selected Agricultural Products in Canada | Dept. of Agric. Econ. Univ. of Manitoba | M.H. Yeh M. Beckford | Sept. 1961 | Aug. 1965 | 1.3 | A regression analysis to determine the elasticities of demand for meats, wheat flour, potatoes, poultry and eggs, and dairy products. |
| Accuracy of Pricing Slaughter Cattle Purchased Live | Dept. of Agric. Econ. Univ. of Manitoba | A.W. Wood A. Loyns | Sept. 1963 | July 1964 | 0.7 | A study to determine the effects of errors in estimating the grade and yield of slaughter cattle on the costs to buyers and the returns to producers. Winnipeg area. |

MARKETING, DISTRIBUTION AND TRADE (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Professional | Brief Outline |
|--|---|--------------------------------|--------------------|----------------|--------------|--|
| | | | Date Started | Date Completed | man-years | |
| Price Differentials Between Cattle Marketing Channels | Dept. of Agric. Econ. Univ. of Manitoba | A. W. Wood M. Ulrich | Sept. 1963 | Aug. 1964 | 0.7 | A study to determine the differences, if any, in prices paid by packers for cattle purchased at the farm; at the plant from farmers and through truckers; and at the Public Market, in Winnipeg. |
| Prospective Markets for Canadian Oilseeds and Oil Seed Products and their Implications for the Canadian Oilseed Industry | Dept. of Agric. Econ. Univ. of Manitoba in cooperation with Agric. Econ. Research Council of Canada | O.P. Tangri S. Lubin | May 1965 | Aug. 1966 | 0.8 | A study of the present and potential market outlets for Canadian oilseeds and oilseed products at home and abroad and to determine Canada's position relative to other competitors. |
| Livestock, Meat and Farmers | Dept. of Agric. Econ. Univ. of Sask. in cooperation with Sask. Wheat Pool | R.C. Nicholson G.C. Carlson | Sept. 1961 | July 1965 | 2.0 | An examination of the livestock production and slaughtering, processing industries in Saskatchewan and estimate of prospects for change in these two segments by 1980. Reports covers supply of and demand for red meat, expected regional land-use adjustments, regional marketings of livestock and meat, the livestock slaughter industry, and the meat packing industry. |

MARKETING, DISTRIBUTION AND TRADE (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Professional : Started | Completed | Professional : Completed | Project Outline |
|---|---|-----------------------------|--------------------|---------------|---------------------------|-----------|-----------------------------|---|
| | | | Date | Date | | | | |
| Livestock Price Fluctuations | Dept. of Agric. Econ. Univ. of Alta. | | May 1962 | June 1967 | 1.0 | | | An analysis of the periodic movements in livestock prices since 1946 and determination of patterns and relationships among various prices and demand and supply factors. Includes all major terminal markets in Canada with focus in Edmonton and Calgary. |
| Demand for Agricultural Products, Imported and Domestic in Newfoundland | Newfoundland Dept. of Mines, Agriculture and Resources in cooperation with ARDA | B. Singh | June 1963 | May 1964 | 3.0 | | | A marketing study investigating demand and shifts of vegetables and meats, imports and factors affecting volume and distribution of imports, and domestic marketing facilities. The focus is directed to possibilities of improving the competitive position of domestic products by better marketing facilities. |
| An Evaluation of the Long Range World Demand for Canadian wheat | Dept. of Agric. Econ. Univ. of Sask. | H. Van Vliet G.G. Storey | June 1964 | April 1967 | 1.2 | | | An evaluation based on output and consumption potential for wheat for the various world regions. Investigation of various new estimates that represent a range of possible conditions and forces of supply and demand. |

MARKETING, DISTRIBUTION AND TRADE (Continued)

| Title of Project | Agency | Period of Research | | | Project Leader(s) | Brief Outline | | |
|--|--|--|----------------|-----------------------|-------------------|---------------|---------------|---|
| | | Date Started | Date Completed | Professional man-year | | Date | Professionals | |
| 2.4 <u>International Agriculture and Trade</u> | | | | | | | | |
| The Prospects of Liberalizing Trade in Agriculture in the North Atlantic Area. | Dept. of Agric. Econ. Macdonald College | D.L. MacFarlane L.A. Fischer | May 1965 | Nov. 1966 | 0.8 | | | An analysis of barriers and restrictions on trade in Agriculture in the area. |
| International Trade and Canadian Agriculture | Agricultural Econ. Research Council of Canada in cooperation with Economic Council of Canada | J.H. Young F. Shefrin G.A. MacEachern D.L. MacFarlane Jean Royer E.L. Menzie J.E. Floyd D.R. Campbell | May 1965 | July 1966 | 2.0 | | | A series of background studies and reports for discussion at a conference. Rigorous examination of international trade and effects of all facets of trade in the major groups in the economy. Published report no. 5 (AERC) |
| International Commodity Agreements and Economic Development | Dept. of Econ. McMaster Univ. | W. Machenzie | May 1966 | May 1967 | 0.4 | | | A study of the extent international commodity agreements can be used to raise foreign exchange earnings of less developed countries. Limited to study of coffee, cocoa, and tea. |
| Interrelationships between the Canadian and U.S. Beef Cattle Industry | Dept. of Agric. Econ. Univ of Manitoba | A.W. Wood Y.K. Atta-Konadu | May 1965 | Aug. 1966 | 0.6 | | | A study to determine the degree of interdependence in price and output adjustments for beef for Canada and U.S.A; examine changes in factors affecting trade in beef; determine the relationship between market price differentials for beef and the import-export situation between the two countries. |

MARKETING, DISTRIBUTION AND TRADE (Continued)

54.

| Title of Project | Agency | Project Leader(s) | Period of Research | | | Professional : :man-years : | Brief Outline | | |
|--|--|-------------------|--------------------|-----------|------|---|---------------|---------|-----------|
| | | | Date | Completed | Date | | | | |
| | | | | | | | | Started | Completed |
| | | | | | | | | | |
| Projected Level of Oilseed Exports from Senegal, Nigeria Congo to 1975 | Univ. of Alberta in cooperation with U.S. Dept. of Agric. | E.R. Berg | May 1964 | Dec. 1966 | 1.0 | An estimation of the supply, demand and exports of peanuts, palm oil and palm kernels for 1969 and 1975 and relation of these associated African countries with the EEC. | | | |
| Grain Marketing in the Federal Republic of Germany | Dept. of Agric. Econ. Univ. of B.C. | M.J. Worling | Sept. 1965 | May 1967 | 0.5 | An examination of the post world war II developments in the grain trade of this country including the marketing channels and marketing regulations. It emphasizes the situation since the introduction of E.E.C. market regulations. | | | |
| Canadian Wheat in Relation to the World's Food and Distribution | Dept. of Agric. Econ. Univ. of B.C. in cooperation with Sask. Wheat Pool | W.J. Anderson | 1962 | 1964 | 2.0 | An examination of the world food requirements in relation to supply; Canada's position of comparative advantage and market outlook; and analysis of various proposals and schemes to use food as aid to underdeveloped areas. Also a world-wide appraisal of wheat production and needs and implication for Canadian Wheat Producers Limited. | | | |

3. RESOURCE USE AND DEVELOPMENT

| Title of Project | Agency | Project Leader(s) | Period of Research | | | Brief Outline |
|--|--|-------------------|--------------------|------------|-----------|--|
| | | | Date | Date | Profes- | |
| | | | Started | Completed | sional | |
| | | | | | man-years | |
| 3.1 Land and Water | | | | | | |
| Benefit Cost Study, Pembina River Irrigation Project, Manitoba | Economics Branch, CDA in cooperation with P.F.R.A. and Man. Dept. of Agric. | T.O. Eicken | June 1962 | May 1964 | 2.9 | A study of present land use and farm organization and development of farm budgets under both anticipated dry land and irrigation organization. Appraisal of net benefits accruing to project. International and multi-purpose aspects of water use. |
| Supplemental Irrigation in the Proposed South Sask. River Irrigation Project | Econ. Branch, CDA in cooperation with Sask. Dept. of Agric. and Univ. of Sask. | B.H. Sonntag | April 1963 | April 1965 | 2.0 | The general purpose of the study was to develop profit-maximizing plans of farms using supplemental irrigation in the initial phase of the project. Plans were developed for various resource supply, production alternatives, production efficiency and price situation for one half and one section farms through a linear programming analysis. |
| Benefit Cost Analysis of Proposed Water Development Projects, Saskatchewan | Econ. Branch, CDA in cooperation with P.F.R.A. | J. Zeman | May 1965 | continuing | 1.0 /yr. | Provides an evaluation of economic feasibility of small project proposals for various farm, household and community purposes in local areas. The accounting of direct benefits were obtained from the local residents with engineering costs provided by P.F.R.A. |

RESOURCE USE AND DEVELOPMENT (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional | Brief Outline |
|---|--|--------------------------|--------------------|---------------|-------------------|--|
| | | | Date | Date | | |
| | | | Started | Completed | man-years | |
| Irrigation Lands Crop Production Study, All Irrigation Districts, Alberta | Economics Branch, Canada Dept. of Agriculture | L.C. Allen K. Elgaard | Jan. 1964 | May 1965 | 2.0 | The purpose and scope was to measure the primary benefits of irrigation. Quantities and values of crop output by kinds of crop in 1963 were estimated for each of the 14 irrigation districts, and compared with a hypothetical dryland crop output. The study was based on a 15 per cent sample of irrigated farms selected at random within a size stratification. |
| Farm Input-Output Study, Eastern Irrigation District, Alberta | Econ. Branch, CIA in cooperation with PFRA and Agric. Econ. Div. Alta Dept. of Agriculture | K. Elgaard | Oct. 1964 | April 1965 | 0.5 | The purpose of this study was to estimate the net benefits from irrigation in the E.I.D. and to provide detailed input-output data. |
| Preliminary Benefit Cost Study, Eastern Block, Bow River Development, Alberta | Economics Branch, Canada Dept. of Agriculture | K. Elgaard | Oct. 1965 | Feb. 1966 | 0.2 | The purpose of this study was to evaluate the benefits and costs of irrigation as compared with a dryland economy. |
| Benefit Cost Study, Millar Dam Project, Alberta | Econ. Branch, CDA in cooperation with PFRA | K. Elgaard | May 1965 | Oct. 1965 | 0.1 | Purpose of study was to assess the economic feasibility of providing alternative sources of water to the village of Alliance and benefits to farmers for stock watering and domestic use. Based on a survey of surrounding farm operators and cost data from PFRA, village of Alliance and Alberta Department of Water Resources. |

| Title of Project | Agency | Project Leader(s) | Period of Research | | | Professional | Brief Outline |
|--|--|--------------------------|--------------------|----------------|-----------|---|---------------|
| | | | Date Started | Date Completed | man-years | | |
| | | | | | | | |
| | | | | | | | |
| Benefit Cost Study, Kimball Canal Project, Alberta | Econ. Branch, CDA in cooperation with P.F.R.A. | K. Elgaard | June 1965 | Sept. 1965 | 0.1 | The purpose of the study was to evaluate the economic feasibility of this water development designed for stock watering and supplementary irrigation. It is available to 30 farmers along a 25 mile course in the Pine Pound Creek Basin. Cost data by P.F.R.A. | |
| Benefit Cost Study, Peckle River Basin Project, Alberta | Econ. Branch, CDA in cooperation with P.F.R.A. | K. Elgaard V.J. Miles | Oct. 1965 | Dec. 1966 | 0.3 | This is a flood control project. The study purpose was to evaluate the economic feasibility in terms of a benefit cost analysis from flood protection. Data on benefits obtained through a farm survey and construction cost data was supplied by P.F.R.A. | |
| Study of Wheat Yields in Alberta | Econ. Branch, CDA | K. Elgaard | July 1965 | Jan. 1966 | 0.2 | This is a revision of a 1951 reference manual and presents wheat yield data for the 1925-1961 period - a 15 and 25 year average and coefficient of variation by shipping points. | |
| An Economic Appraisal of Proposed Agricultural Development and Cattle Ranching in the Slave River Lowlands, N.W.T. | Econ. Branch, CDA in cooperation with Research Branch, CDA | R.A. Stutt | May 1965 | Dec. 1966 | 0.8 | Scope of study included characteristics of area and activity; population and demand for beef; provision and costs of transportation; ranch budgets by type of management; feasibility of commercial bison enterprises. | |

RESOURCE USE AND DEVELOPMENT (Continued)

58.

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional | Brief Outline |
|---|--|------------------------|--------------------|-------------------|-------------------|--|
| | | | Date Started | Date Completed | man-years | |
| Broad Characteristics of Agriculture in Canada | Econ. Branch, CDA | A. Stutt H.K. Scott | Nov. 1963 | Dec. 1966 | 1.5 | A series of ten maps depicting the extent, use and intensity of agricultural land resources based on 1961 census subdivision data. An economic indication of agricultural land capability in the light of farm development and experience to date. |
| Aerial Photographic Interpretation of Land Use Changes in Lanark County, Ontario | Econ. Branch, Canada Dept. of Agriculture | L.E. Philpotts | Jan. 1965 | June 1967 | 0.6 | This is an identification of land use changes as revealed by air photos taken in period of 1929 to 1935, and in 1963 or 1964. |
| Aerial Photographic Interpretation of Land Use in the Slave River Lowlands, N.W.T. | Econ. Branch, CDA in cooperation with Research Branch, CDA | L.E. Philpotts | July 1965 | May 1967 | 0.6 | This study was an aid in the resurvey of soils of the area and assessment of area for ranching; technical aspects were an investigation of Agfa negative color film as an aid in improved identification |
| Aerial Photographic Interpretation of Land Use Changes and Economic Classification of Farms in Gloucester Country, N.B. | Econ. Branch, Canada Dept. of Agriculture | L.E. Philpotts | Feb. 1964 | Dec. 1965 | 0.3 | An identification of land use and changes in 1944 and 1963, and a delineation of farms by economic classes. Confined to five parishes. |
| Economics of Pasture Use in Quebec | Dept. of Agric. Econ. Macdonald College in cooperation with Que. Dept. of Agric. | C.B. Haver D. Daly | June 1965 | May 1966 | 1.0 | A linear programming study of pasture use alternative of predefined parameter adjudged to be applicable to Quebec Agriculture. |

RESOURCE USE AND DEVELOPMENT (Continued)

| Title of Project | Agency | Period of Research | | Project Leader(s) | Date Started | Date Completed | Professional | Brief Outline |
|---|---------------------------------------|--------------------|---|----------------------------|--------------|----------------|--------------|---|
| | | : | : | | | | man-years | |
| An Evaluation of Economic Aspects of Community Pastures and Private Land Purchase in Selected Areas of Bruce, Grey and Leeds Counties, Ont. | Dept. of Agric. Econ. Univ. of Guelph | | | G.I. Trant | Aug. 1964 | | 1.5 | An evaluation of three potential community pastures; determination of rate of return on investment on pastures as compared with lands used for crops in a rotation. |
| Economic Aspects of Irrigation in Southern Ontario | Dept. of Agric. Econ. Univ. of Guelph | | | G.I. Trant R.H. Baptie | April 1966 | Dec. 1966 | 0.6 | The study purpose is to estimate the profitability of supplementary irrigation for potatoes, field roots, fodder, corn, corn for husking and hay. Application of variance analyses and regression analyses to meteorological data and agricultural statistics. |
| An Analysis of Some Elements of Demand for Ontario Provincial Parks | Dept. of Agric. Econ. Univ. of Guelph | | | R.S. Rodd R.G.R. Rogers | Sept. 1964 | Sept. 1965 | 0.5 | An examination of the determinants of demand and costs of operating an outdoor recreation area based on a survey of provincial park users with an analysis of spatial distribution and other population characteristics. Testing of application of a theoretical model re the establishment of a hypothetical new park. |
| Guelph and the Canada Company: An Approach to Resource Development | Dept. of Agric. Econ. Univ. of Guelph | | | R.S. Rodd J.M. Cameron | April 1966 | Oct. 1966 | 0.5 | A historical study of land settlement and development in the 1826-1855 period; search of historical documents and other data, and modern literature on economic development |

RESOURCE USE AND DEVELOPMENT (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | | Professional | Brief Outline |
|---|---|--------------------------|--------------------|----------------|------|--------------|--|
| | | | Date Started | Date Completed | Date | man-years | |
| Rural Land Use Adjustments in Leeds and Lanark Counties, Ontario | Dept. of Agric., Econ. Univ. of Guelph in cooperation with Econ. Branch, CDA | R.S. Bodd B.E. Zimmer | April 1966 | June 1967 | | 0.8 | An investigation of the nature and extent of past and anticipated land use changes and the possible role of ARDA in adjusting Agriculture and land use on a regional basis. Survey data obtained from a sample of 80 farmers. |
| Feasibility of Wild Rice Production on a Commercial Scale, Northern Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | M. Huff | July 1965 | Sept. 1965 | | 0.2 | A feasibility study dealing with physical aspects of wild rice culture, area suitability, production and marketing costs, market potential and profitability of enterprise with the view of stimulating better use of resources. |
| People and Land in Transition | Ont. Econ. Council in cooperation with Ont. Dept. of Lands and Forests Municipal Affairs and Agric.; also ARDA (Ont.) | C.E. Van Horn | Oct. 1964 | April 1966 | | 0.9 | A test study to establish a concept of appropriate land use and human resource use and adjustments needs to make Ontario's marginal and submarginal rural land more productive and properly used. |
| Productivity Study in Western Manitoba | Dept. of Agric. Econ. Univ. of Manitoba | M.H. Yeh Y. Chang | Sept. 1964 | Sept. 1966 | | 1.0 | This study has the objective of finding any misallocation among resources; providing estimates of marginal productivity; and returns to scale. Data provided from records of Western Farm Business Association members. |

RESOURCE USE AND DEVELOPMENT (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional | Brief Outline |
|---|--|---------------------------|--------------------|----------------|-------------------|--|
| | | | Date Started | Date Completed | | |
| Impact of Crop Yield Instability on the Farm Business | Dept. of Agric. Econ. Univ. of Manitoba | J.C. Gilson I.J. Singh | Sept. 1963 | April 1966 | 1.1 | An analysis of the effects of crop yield instability on the allocation and use of resources in the farm business. A linear programming project based on farm accounts of members of Carman District and Western Manitoba Farm Business Associations. |
| Purchase of Saskatchewan Farm Land by Citizens or Companies of the U.S.A. | Econ. and Stat. Branch, Sask. Dept. of Agric. | J.A. Brown | periodic | | 0.2 /yr. | A survey and analysis of the extent of purchases of farm land in Saskatchewan by Americans in a strip 54 miles wide across to southern end of the Province. |
| A Study of Community Pasture Development in Saskatchewan | Econ. & Stat. Branch, Sask. Dept. of Agric. and ARDA (Sask.) | G.C. Storey | June 1964 | Sept. 1966 | 2.8 | A critical examination of the effectiveness and importance of community pasture development in the Province. Involved all types of community pastures i.e. provincial, FFA, cooperative, ARDA and municipal. Based on survey of 180 patrons. |
| Benefit Cost Analysis of Series of Six Proposed Community Pastures, Sask. | Econ. & Stat. Branch, Sask. Dept. of Agric., and ARDA (Sask.) | G.C. Storey | July 1965 | Nov. 1966 | 2.0 | An evaluation of proposed community program to be developed under a provincial program in terms of benefits from increased cattle production in relation to grazing development and operational costs. |

RESOURCE USE AND DEVELOPMENT (Continued)

| Title of Project | Agency | Period of Research | | Project Leader(s) | Date | | Brief Outline |
|--|--|-------------------------------|------------|-------------------|-------|--------------------|--|
| | | :Started | :Completed | | :Date | :Profes- sional | |
| | | :man-years | | | | | |
| Evaluation of the Irrigation Purpose: Saskatoon Southeast Water Supply Study | Econ. & Stat. Branch, Sask. Dept. of Agric. in cooperation with Sask. Water Resources Commission | S.J. Gartner | June 1965 | Aug. 1965 | 0.4 | | This is a benefit cost analysis to determine the marginal value of water for irrigation use as compared with industrial, recreational and municipal uses. |
| Socio-Economic Analysis of the Sask. River Delta Project | Econ. & Stat. Branch, Sask. Dept. of Agric., in cooperation with Sask. Dept. of Natural Resources and ARDA (Sask.) | S.J. Gartner | June 1965 | Feb. 1967 | 1.0 | | A benefit cost and budget study to determine the economic development possibilities of developing the delta areas in northeast Sask., for agriculture and non-agricultural uses. |
| A Survey of Alberta Dryland Farmers Converting to Irrigation Practices | Econ. & Stat. Branch, Sask. Dept. of Agric. | S.J. Gartner A.D. Hutcheon | Nov. 1965 | Dec. 1965 | 0.4 | | An analysis of a group of Alberta irrigation farms regarding capital and labor requirements, income and response patterns, cropping systems to give an indication of probable resource requirements and organization of farms in the South Sask. irrigation project. |
| An Economic Analyses of the Agricultural Potential of the Leaf Lake Drainage Project | Econ. and Stat. Branch, Sask. Dept. of Agric. | S.J. Gartner | June 1965 | July 1965 | 0.1 | | A benefit cost study to project the probable economic value of a drainage project to the agricultural community. |

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional | Brief Outline |
|---|---|-----------------------------|--------------------|-------------------|-------------------|--|
| | | | Date Started | Date Completed | | |
| Economic Efficiency in Pasture Production and Improvement in Alberta | Dept. of Agric. Econ. Univ. of Alberta in coo- peration with ARDA (Can. and Alberta) | H.C. Love | April 1965 | Dec. 1967 | 5.6 | An examination of the costs and benefits of improving public grazing lands to increase grazing capacity. A comparison with private grazing lands. |
| Socio-Economic Benefits of Irrigation in an Established Irrigation District of Alberta | Dept. of Agric. Econ. Univ. of Alberta in coo- peration with ARDA | W.B. Rogers | April 1966 | Feb. 1967 | 0.5 | A benefit cost analysis and socio-econo- mic analysis of irrigation induced factors such as recreation, commercial fishing and trapping in the Eastern Irrigation District. |
| An Economic Benefit Analysis of an Established Irrigation District in Southern Alberta | Dept. of Agric. Econ. Univ. of Alberta in cooperation with ARDA | W.B. Rogers T.W. Manning | June 1964 | June 1966 | 2.8 | A benefit cost analysis applied to direct and indirect benefits of irrigation and determination of the distribution of benefits among irrigation farmers, other local residents, the province and Canada Study of the Eastern Irrigation District. |
| An Analysis of the Structure of Irrigation Administrations in Southern Alberta | Agric. Econ. Div. Alta. Dept. of Agric. | G.B. Parlbay | March 1965 | June 1966 | 0.9 | An investigation into all areas of irri- gation administration including policy managerial, supervisory and employee levels. A series of case studies cover- ing historical background, legislation, capital ownership, functions, structure and organization, size of administration and apparent administration problems. |

RESOURCE USE AND DEVELOPMENT (Continued)

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| Title of Project | Agency | Project Leader(s) | Period of Research | | Brief Outline |
|---|--|-------------------|--------------------|----------------|--|
| | | | Date Started | Date Completed | |
| Benefit Cost Analysis of the Red Deer River Basin Development | Agric. Econ. Div. and Water Resources Div. Alta. Dept. of Agric. | G.B. Parby | June 1966 | June 1968 | 3.0 A study to determine economic feasibility i.e. benefit cost ratio of the development and provide a basis for selection of most desirable alternative proposal. Benefits to be investigated include stock-watering, irrigation, domestic, municipal and industrial uses, flood control, pollution control, power and recreational use. |
| Economics of Land Levelling | Agric. Econ. Div. Alta. Dept. of Agric. in cooperation with ARDA | R.J. Miller | June 1964 | March 1967 | 2.8 A study involving 65 farmers in the irrigation areas of Southern Alberta to determine the economic feasibility of land levelling compared with alternatives of flood irrigation of unlevelled land or using sprinkler irrigation. |
| Pasture Costs of Private Pastures in Saskatchewan | Econ. and Stat. Branch, Sask. Dept. of Agric. and ARDA (Canada and Sask) | G. Thomsen | July 1964 | March 1965 | 0.8 Determination of pasture costs in terms of investment cost, depreciation and operating costs. An evaluation of the community pasture development in the Province as a basis for planning in the future as to comparative situation of public or private pasture development. |

RESOURCE USE AND DEVELOPMENT (Continued)

65.

| Title of Project | Agency | Period of Research | | | Project Leader(s) | Brief Outline | | |
|--|--|--------------------|---------|------------|--------------------------------|---------------|-------------------|--|
| | | Date | Started | Completed | | Date | Profes- sional | |
| | | | | | | | | man-years |
| Ranch Beef Operations and Their Potential in the Inter-lake Area of Manitoba, 1964 | Econ. Branch, CDA and Man. Dept. of Agric. and Conservation in cooperation with (Can. and Man.) | April 1963 | | Aug. 1965 | Z.B. Damnjanovic | | 1.5 | A study to determine the economic requirements of successful ranch operations and feasibility of expanding ranch type operations in the area. It included an agricultural resource study of the area, farm size and numbers, farm budgets of present beef farmers, a marginal production analysis and recommendations. |
| An Appraisal of the Economic Benefits of the Vernon Irrigation District, B.C. | B.C. Dept. of Lands, Forests and Water Resources in cooperation with Econ. Branch, CDA and ARDA (Canada) | May 1964 | | Sept. 1965 | C.C. Spence | | 0.8 | A comprehensive study of all aspects of irrigation development-economic and engineering-and measurement of the relationship of the indirect or secondary benefits in the Vernon community to those received by farmers or primary beneficiaries. Purpose of study was to plan irrigation changes by rehabilitation of works or redevelopment |
| The Annual Cost of the Western Irrigation District Alberta | Priniciples Water Rehabilitation Administration and ARDA (Canada) | June 1964 | | July 1965 | Engineering Division, P.F.R.A. | | 1.3 | An inventory of the irrigation works of this District and a determination of the cost of operation, maintenance and replacement. Records of the District was received and a field survey was made to determine the condition of the works and costs. |

RESOURCE USE AND DEVELOPMENT (Continued)

| Title of Project | Agency | Period of Research | | Project Leader(s) | Date | | Brief Outline |
|--|--|--------------------|------------|-------------------------------|---------|-----------|---|
| | | Started | Completed | | Started | Completed | |
| Implications of the South Saskatchewan Dam on Interregional Competition in the Marketing of Selected Agricultural Products | Dept. of Agric. Econ. Univ. of Sask. | Sept. 1966 | Dec. 1967 | A.G. Wilson J. Hemstead | | 1.0 | A study of production costs and market potential in Canada and U.S.A. for products and processed derivatives of irrigation in the area served by the South Sask. Dam. Primary objective of study is to ascertain the effects of the irrigation development upon the marketing of agricultural products interregionally. A guide to development of irrigation policy. |
| An Evaluation of Alternative Methods of Preserving Wetlands for Waterfowl Production in Western Canada | Dept. of Agric. Econ. Univ. of Sask. in cooperation with Canadian Wildlife Service | Jan. 1966 | March 1967 | R.C. Nicholson D. Stephens | | 1.0 | A study of agreements used for the preservation of wetland for ducks in the three Prairie Provinces. Deals with specific problems associated with requiring control of land for duck rearing, examination of existing contract procedures and alternatives, and evaluation of underlying assumptions of contracts. Also examination of various payment plans using alternate discounting procedure. |

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- | Brief Outline |
|---|---|--------------------------------------|--------------------|------------|-----------|--|
| | | | Date | Date | sional | |
| | | | Started | Completed | man-years | |
| 3.2 Labor | | | | | | |
| Farm Labor Mobility and the Regional and Occupational Composition of the Farm Labor Force | Dept. of Agric. Econ. Univ. of Guelph | B.B. Perkins | Aug. 1964 | Dec. 1966 | 0.7 | Estimation of mobility of farm labor by class of worker and region in post war period; test of hypothesis respecting variation in mobility rates; and examination of impact of mobility on composition of farm labor force. |
| The Functioning of the Labor Market between Farm and Non-Farm Employment | Agric. Econ. Research Council of Canada | G.A. MacEachern | July 1965 | Sept. 1966 | 1.0 | An investigation of the operation of the labor market which ties farm and non-farm occupations; to determine the factors influencing the labor market; and identification of the causal factors in the unequal growth of income producing abilities among communities. |
| A Market Structure of Family and Hired Labor in Agriculture | Dept. of Agric. Econ. Univ. of Manitoba | M.H. Yeh L.K. Li | Sept. 1963 | Aug. 1965 | 1.0 | A regression analysis to find the most significant factors which affect the demand and supply of farm labor, and to relate farm labor mobility to farm and non-farm employment opportunities and wage rates. |
| A Study of Labor Employment in P.C. Agriculture | Dept. of Agric. Econ. Univ. of B.C. | M.J. Dorling F. Hoang-Nhu Chau | Sept. 1964 | May 1967 | 0.5 | An analysis of the B.C. agricultural labor force in terms of size, composition and characteristics; seasonal and skilled labor shortage in certain regions. Special consideration is given to problem of defining concepts and methods of measurement. It deals with factors affecting labor mobility and measures to overcome labor market imperfections. |

RESOURCE USE AND DEVELOPMENT (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | | | Brief Outline |
|--|---|-------------------|--------------------|------------|-----------|--|---------------|
| | | | Date | Date | Profes- | | |
| | | | Started | Completed | sional | | |
| | | | | | man-years | | |
| An Approach to the Study of Regional Labour Absorption. The Case of Saskatchewan, 1941-1961. | Canadian Centre for Community Studies in cooperation with ARDA (Canada) | E. Tihanyi | Sept. 1964 | April 1966 | 1.5 | A study of interregional redistribution of labor and to investigate why labor surpluses develop in some regions. The study is focussed on rural farm labor in a selected low income area in relation to the growth of the total labor force and regional absorption. | |

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional | Brief Outline |
|---|--|-------------------|--------------------|-------------------|-------------------|---|
| | | | Date Started | Date Completed | | |
| 3.3 Capital | | | | | | |
| Farm Machinery Syndicates in the Prairie Provinces | Econ. Branch, CDA | P.H. Sonntag | Nov. 1965 | May 1966 | 0.5 | This is an evaluation of the Farm Machinery Syndicate Credit Act in terms of (1) the influence it has had on joint ownership of machines, (2) possible improvements in the program, and (3) difficulties encountered by farmers in syndicate formation and operation. |
| A Statistical and Economic Study of Kinds of Assistance Measures for Agriculture in Quebec. | Econ. Division Que. Dept. of Agriculture | R. Fichette | Dec. 1964 | continuing | 0.6 | A compilation of information on all Quebec Agricultural Assistance programs, evaluation of costs and the number of recipients. |
| Capital in Canadian Agriculture | Agric. Econ. Research Council in Canada | M.L. Lerohl | Aug. 1965 | Aug. 1966 | 1.0 | This study deals with the capital and ownership structure of Canadian farms and measures the effect of selected variables on the value of farm real estate. |
| Rural Credit in Canada: Problems for Newfoundland | D.W. Carr & Associates for ARDA (Canada and Newfoundland) | D.W. Carr | March 1964 | Dec. 1965 | 0.6 | Rural credit needs and policy application to relevant problems of Newfoundland in the implementation of a coordinated rural development program. |

RESOURCE USE AND DEVELOPMENT (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Professional man-years | Brief Outline |
|--|---|-------------------|--------------------|----------------|---------------------------|--|
| | | | Date Started | Date Completed | | |
| An Investigation of Capital Investment and Credit Policies in Canadian Agriculture | Dept. of Agric. Econ. Univ. of Manitoba in cooperation with Man. Agric. Credit Corporation; and T. Smith, Royal Bank at Steinback, Man. | J.C. Gilson | May 1963 | Sept. 1967 | 0.9 | A study of capital requirements and debt structure of different types of farms in Canada; compilation and interpretation of lending policies and procedures of agric. lending agencies in Canada; and a comparison with farm credit institutions in the U.S.A. |
| Government Farm Credit Sources in Canada | Economics and Statistics Branch, Sask. Dept. of Agric. | J.A. Brown | continuing | | 0.1 /yr. | An annual survey of government credit programs available to farmers in Canada, federal and provincial. |

RESOURCE USE AND DEVELOPMENT (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | | Profes- sional | Brief Outline |
|---|---|-------------------|--------------------|--------------|-----------|-------------------|--|
| | | | Date | Date | | | |
| | | | Started | Completed | | | |
| | | | | | man-years | | |
| 3.4 Planning and Development | | | | | | | |
| A Guide to Community Pastures for Eastern Canada. | Econ. Branch, CDA in cooperation with ARDA | S.R. Burkell | Sept. 1965 | June 1966 | 0.5 | | An ARDA handbook on guides to community pasture development and organization, op- rating procedures, management conside- rations and other pertinent information |
| Parkland Farm Adjustment Study, Saskatchewan | Econ. Branch, CDA in cooperation with Melford Experimental Station | B.H. Sonntag | June 1965 | Aug. 1966 | 1.0 | | An examination of small farms in a low- income area through a linear programming procedure with the view of developing enterprise and resource combinations to maximize income for various soil produc- tivity, capital and labor efficiency situations. |
| The Role of Agric. Business in the National Economy | Econ. Branch CDA | I.F. Furniss | June 1966 | June 1967 | 0.3 | | Assessment of nature and scope of non- farm activity concerned with provision of farm inputs; processing; marketing services and contribution to G.N.P. |
| Post War Agricultural Trends in the Atlantic Provinces | Atlantic Provin- ces Economic Council | R.K. Fletcher | Dec. 1965 | June 1966 | 0.5 | | An examination of the past role of agriculture in the Atlantic economy with an assessment of future potential and types of adjustment policies required. |

RESOURCE USE AND DEVELOPMENT (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | | Brief Outline |
|---|--|---|--------------------|----------------|------------------------|---|
| | | | Date Started | Date Completed | Professional man-years | |
| Rural Canada: A Census Monograph | Dept. of Agric. Econ. Macdonald College in cooperation with Census Div. D.B.S. | D.L. MacFarlane L.A. Fischer G. MacFarlane | May 1965 | Dec. 1966 | 2.0 | An interpretation of economic and social aspects of Canadian Agriculture since World War II. Economic, sociological, demographic, statistical and historical analysis. |
| Rural Areas Development | Dept. of Agric. Econ. Macdonald College in cooperation with North West U.S.A. Farm Management Research Committee | C.B. Haver | April 1965 | April 1966 | 1.0 | A study of factors affecting the decline and influential in the growth and development of rural areas. |
| Background Studies for Resource Development in the Tweed Forest District, Ontario | Depts. of Agric. Econ. Extension Education and Zoology, Univ. of Guelph, Econ. Branch, CDA and Research Branch, Ont. Dept. of Agric. | S.H. Lane (Chairman) and leaders for each of the nine reports. | June 1961 | June 1966 | 5.8 | A series of studies to examine and describe the physical, biological, economic and sociological characteristics of the area; to indicate the kinds of information required by rural community organizations to formulate action programs of a rural development nature. |

| Title of Project | Agency | Project Leader(s) | Period of Research | | Brief Outline |
|--|--|---------------------------------------|--------------------|----------------|---|
| | | | Date Started | Date Completed | |
| | | | | | |
| A Study of the Problems of Growth, Stability or Decline of the Pattern of Farm Organization within a Municipal Administrative Area | Dept. of Agric. Econ. Univ. of Guelph; Ont. Dept. of Econ and Development; town of Burlington; ARDA | P.A. Wright R.S. Rodd S.H. Lane | May 1965 | Dec. 1966 | 0.5 The purpose of this study is to estimate the probable stability of the pattern of farm organization, and to identify the attitude of farmers towards long-run stability of their farms under an urban administration. |
| Analysis of Regional Development Trends in Ontario | Dept. of Agric. Econ. Univ. of Guelph | R.S. Rodd | May 1964 | continuing | 0.1 The purpose of this project is to explore the possibilities of establishing a set of regional economic and social accounts by regions; discover data sources, limitations and problems; and compile these basic data on a comparable basis by regions and sub regions, particularly to distinguish relations among different industries. |
| Economic Development of the Cape Croker Indian Reserve, Ontario | Dept. of Agric. Econ. Univ. of Guelph | G.I. Trant | May 1965 | Sept. 1966 | 0.8 This study is an intensive examination of the existing resource base, natural and human, with the view projecting the possibilities for economic improvement. |
| Assembly Model for a Local Feed Business | Dept. of Agric. Econ. Univ. of Guelph | W.M. Braithwaite J.B. Britney | Aug. 1964 | Jan. 1967 | 1.0 A study to determine the optimum product mix, labor utilization and feed mix for a local feed mill - a model. |

RESOURCE USE AND DEVELOPMENT (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional | Brief Outline |
|--|--|--|--------------------|-------------------|-------------------|--|
| | | | Date Started | Date Completed | | |
| An Empirical Study of Interdependence among Agriculture and Other Sectors of the Canadian Economy. | Dept. of Agric. Econ. Univ. of Guelph in coope- ration with the Agric. Econ. Re- search Council and D.B.S. | T.E. Josling G.I. Trant | May 1964 | June 1966 | 1.0 | A study of the basic economic interdependence between primary agriculture and the rest of the economy including the flow income. The development of an input-output table to quantify the relationships. |
| An Analysis of Interregional Patterns of Economic Growth | Dept. of Agric. Econ. Univ. of Guelph | G.I. Trant P.A. Wright A. Teskey | April 1963 | March 1965 | 0.7 | A study to measure relative and absolute changes between Canadian Agriculture and other sectors of the economy and to examine changes in detail for Ontario on a county basis. The data was examined for inter and intra industry adjustment for 1941, 1951 and 1961 by use of the "perloff shift analysis" technique. |
| A Forecast of Agricultural Resources, Eastern Ontario | Farm Econ. Coun. Stat. Branch, Ont. Dept. of Agric. ARDA (Ont.) | J.H. Clark W.J. Dillon | May 1963 | Oct. 1966 | 1.5 | Purpose of study was to determine the increase in agricultural resources in 11 counties of Eastern Ontario required to meet the area demand for agricultural products grown therein. |
| Potential of the Maritoulin Turkey Industry | Farm Econ. Coun. & Stat. Branch, Ont. Dept. of Agric. & Food | H. Meijls M. Huff | Sept. 1964 | Nov. 1964 | 0.4 | A study to determine conditions under which turkey production and processing could be revived; producer interest and competitiveness with Southwest Ontario producers; operations of evisee- rating plant and costs of renovation and capacity needed. |

RESOURCE USE AND DEVELOPMENT (Continued)

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| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional | Brief Outline |
|--|---|--------------------|--------------------|-------------------|-------------------|--|
| | | | Date Started | Date Completed | man-years | |
| Assessment of Ontario's Agri- culture in 1980 | Ont. Dept. of Economics and Deve- lopment in coope- ration with Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | L. Bodnar | Aug. 1966 | Dec. 1968 | 1.3 | An appraisal of agric. production requirements (volume and structure) by economic regions and counties by 1980; estimation of food demands; livestock feeding and industrial needs; food imports and exports; interprovincial flow; numbers and sizes of farms; capital requirements, mechanization and estimated farm income by size and type. |
| A Study of Atlantic Agriculture | Atlantic Develop- ment in coope- ration with Econ. Branch, Can. Dept. of Agric. & Prov. Depts. of Agric. | J.F. Booth | June 1966 | Nov. 1966 | 1.0 | A comprehensive review of Agriculture and identification of major problems to provide a first order of approxima- tion in terms of employment, and in- vestment and initial forecast of po- tential. |
| Resources and Productivity | Dept. of Econo- mics, McMaster Univ. | W. Mackenzie | June 1964 | June 1965 | 0.6 | A study to compare change in producti- vity, terms of trade and income in the Agriculture of Canada and the U.S.A. from 1946 to 1960. |
| Livestock Industry in Canada 1951-1975 - A Regional and Sectoral Analysis. | Dept. of Agric. Econ. Univ. of Manitoba | M.H. Yeh L. Lin | Sept. 1963 | Nov. 1966 | 1.5 | A study of interregional competition in the livestock industry and inter- industry relationships. An input- output analysis designed to develop a method of evaluation. |

RESOURCE USE AND DEVELOPMENT (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Brief Outline |
|---|---|------------------------------|--------------------|----------------|--|
| | | | Date Started | Date Completed | |
| | | | | | |
| Rural Development Studies in Declared Areas of Saskatchewan | Econ. & Stat. Branch, Sask. Dept. of Agric. in cooperation with other Depts Govt. of Sask. and Univ. of Sask. | Sask. Dept. of Agric. | 1962 | 1965 | 2.0 /yr. A complete inventory of areas declared as rural development areas to establish problems requiring ARDA assistance and to help develop policies and programs. Surveys completed in Torch River, Meadow Lake and Broadview areas. |
| A Study of Economic Growth in Agriculture | Dept. of Agric. Econ. Univ. of Alberta in cooperation with Agric. Econ. Research Council | T.W. Manning | Jan. 1965 | Oct. 1966 | 0.8 An analysis of factors affecting farm income and economic growth and the income producing capacity in the Bonnyville and Red Deer areas. Includes synthesis of a model reorganization of a low-income area to show how economic growth may be stimulated. |
| Farm Trends and Prospects in Alberta | Dept. of Agric. Econ. Univ. of Alberta and sponsored by Alta. Agric. Econ. Advisory Committee | T.W. Manning W.M. Schultz | Sept. 1964 | July 1967 | 2.0 A study to assess the production potential of Alberta's Agriculture for the next 15-20 years for the principal crops by natural regions. |
| Farm Income and Population Characteristics in Alberta | Dept. of Agric. Econ. Univ. of Alberta and sponsored by National Grain Co. | T.W. Manning | March 1963 | Sept. 1966 | 1.5 An analysis of intercensal changes in farm numbers and income and determination of factors related to farm migration and economic growth. Study confined to one low-income farm area and one high income farm area. |

| Title of Project | Agency | Project Leader(s) | Period of Research | | Brief Outline |
|--|---|-------------------|--------------------|----------------|---|
| | | | Date Started | Date Completed | |
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| Some Economic Aspects of the Alberta Butter Industry | Dept. of Agric. Econ. Univ. of Alberta | W.B. Rogers | Aug. 1965 | Aug. 1966 | 0.4 A study of the problems of small, low volume creameries with a view to advising the provincial government on a policy in aid of future development of the industry. |
| Feasibility Study to determine the Requirements for Expansion of the Fresh Vegetable Industry in Alberta | Agric. Econ. Div. and Plant Industry Division, Alta. Dept. of Agric., Alta. Bureau of Statistics and ARDA | K.D. Porter | March 1965 | March 1967 | 2.4 A compilation of information relating to production, distribution, marketing and consumption of the industry with view to establishing the domestic and foreign market outlook. |
| A Resource Appraisal of the Sand Hills Area, Manitoba | Man. Dept. of Agric. and Conservation in cooperation with ARDA | D.C. Foster | July 1963 | March 1965 | 2.0 A resource study of the economic and social conditions, attitudes, goals and ambition of the people in the area. Information was assembled through interviews on the major community problems and possible solutions. |
| Economic Survey of the Inter-lake Area of Manitoba | Medlin Menzies and Associates Ltd. in cooperation with Man. Dept. of Industry and Commerce, and ARDA | M.W. Menzies | April 1963 | March 1964 | 0.3 This study includes a review of the history of past programs in the area, present programs for development of the agricultural, fisheries, forestry and recreational industries; a delineation of the resources of the area; and suggests remedies to overcome problems and areas for investment and employment. |

RESOURCE USE AND DEVELOPMENT (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Brief Outline |
|--|--|------------------------------|--------------------|----------------|--|
| | | | Date Started | Date Completed | |
| Rural South Inverness Resource Study, Nova Scotia | St. Francis Xavier Univ. in cooperation with ARDA (Canada and Nova Scotia) | A.A. MacDonald M.B. Clare | June 1965 | March 1966 | 0.3 A resource inventory and analysis of human, fisheries agricultural, forestry and industrial resources of the area. The purpose was to determine the available resources and how they can be developed. |
| A Feasibility Study to Determine the Potential for Further Cranberry Production in Ontario | Ontario Research Foundation in cooperation with ARDA (Ontario) | H.M. Culp | March 1963 | Nov. 1964 | 1.0 An examination of the cranberry industry and the market supply and demand situation in Canada and U.S.A. The feasibility of extending production in Ontario was examined including cultural and cost aspects. |
| Mactaquac Regional Development Plan. Interim Report | H.G. Acres & Co. Ltd. in cooperation with ARDA (Canada and N.B.) | R.L. Clinch | Aug. 1964 | | 1.0 A report on the establishment of an interim development plan agency, the selection of sites of new communities and the site of a provincial park. This report is one of a series dealing with the building of a dam on the St. John River for power development, the relocation of farmers and families, and redevelopment of the economy of the adjacent areas affected. |

RESOURCE USE AND DEVELOPMENT (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional | Brief Outline |
|---|--|---|--------------------|-------------------|-------------------|---|
| | | | Date Started | Date Completed | man-years | |
| Mactaquac Regional Development Plan, Summary Report | H.G. Acres & Co. Ltd. in cooperation with ARDA (Canada and N.B.) | R.L. Clinch | June 1964 | March 1965 | | A summary of all the interim reports covering adjustments needed and a development plan for agriculture and land use, forestry, tourism, wood using industries, new communities and services for the area changed by the Mactaquac dam. |
| A Socio-Economic Survey of the Musquodoboit River Valley, Nova Scotia | Acadia Univ. Institute in cooperation with Econ. Branch, CDA and ARDA (Canada) | J. Connor | July 1963 | March 1964 | 1.0 | A study of resources of the area and current economic and social conditions with emphasis on agriculture, forestry and wildlife, infrastructure, community activities and participation. |
| Yarmouth County Study; A Preliminary Socio-Economic Assessment | Acadian Univ. Institute in cooperation with ARDA | J. Connor M.V. Marshall G.T. Remington B.A. Robinson | Dec. 1964 | Sept. 1965 | 0.8 | An assessment of physical and human resources of the County. Includes an analysis of population patterns, employment and earnings, agriculture, fisheries, forestry and wildlife, industry, tourism and education. |
| Statistical Report on the Saskatchewan Economy | Economic Advisory and Planning Board Government of Sask. and ARDA (Canada) | K.W. Tar | Jan, 1963 | March 1964 | 1.2 | An assembly of data on population, labor force, agriculture, non-agricultural industries and economic indicators. A printed supplement to Saskatchewan Economic Review |

RESEARCH USE AND DEVELOPMENT (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional | Brief Outline |
|---|---|---------------------------|--------------------|-------------------|-------------------|---|
| | | | Date Started | Date Completed | Man-Years | |
| Economic Development Opportuni- ties in Prince County, P.E.I. | Arthur D. Little in cooperation with ARDA (P.E.I.) | | Jan. 1965 | March 1965 | 0.2 | An examination of the economy, prima- rily agriculture (beef, cattle, dairying, sugar beets and fox), in order to identify opportunities for economic expansion. |
| Needed Resettlement Research: A Study Proposal | Lockwood Survey Corp. Ltd. in cooperation with ARDA (Nfld.) | C.B. Haver G.S. Groves | Feb. 1965 | June 1966 | 1.0 | Ascertaining the kind of detailed re- search needed to develop a program of resettlement in Newfoundland. |
| Survey of Industrial and Resource Potential of Lewisporte, Newfoundland | McNamara Engi- neering Ltd. in cooperation with ARDA | | July 1965 | March 1966 | 1.0 | A study to assess the opportunities for establishing specialty fishing, blueberry, wood and dairy industries. |
| Report of the Livestock Industry in Newfoundland | Newfoundland Dept. of Mines, Agricul- ture and Resources in cooperation with ARDA | W. McNeil | May 1963 | March 1964 | 0.8 | A review of livestock production, his- tory, present situation, future poten- tial and recommendations. |
| The Blueberry Industry in Newfoundland | Newfoundland Dept. of Mines, Agricul- ture and Resources in cooperation with ARDA | A.C. Badcock | 1964 | July 1965 | 1.0 | A study of blueberry picking, processing and sales, comparison of blueberry production in Newfoundland with Maine and the potential of production expan- sion and future markets. |

RESOURCE USE AND DEVELOPMENT (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | | Brief Outline |
|---|--|-------------------|--------------------|-----------|---------------|--|
| | | | Date | Date | Profes- | |
| | | | Started | Completed | sional | |
| | | | : | : | man-years | |
| Socio-Economic Study of Tan- gent Area in Alberta | Agric. Econ. Div. Alta. Dept. of Agric. in coope- ration with ARDA | V.T. Janssen | May 1966 | 1.0 | Sept. 1966 | An inventory of the human and physical resources of the area with an appraisal purpose of providing rural development guidelines. Use of secondary data and surveys. |
| Socio-Economic Study of Census Division no. 12, Alberta | Agric. Econ. Div. Alta. Dept. of Agric. in coope- ration with ARDA | V.T. Janssen | May 1966 | 5.0 | April 1968 | An inventory of the human and physical resources of the area with an appraisal purpose of providing rural development guidelines. Use of secondary data and surveys. |
| Resources for Development Census Division no. 14, Alberta | Agric. Econ. Div. Alta. Dept. of Agric. in coope- ration with ARDA | V.T. Janssen | May 1964 | 2.0 | April 1966 | An inventory of the human and physical resources of the area with an appraisal purpose of providing rural development guidelines. Use of secondary data and surveys. |
| Area Development in the Interlake, Problems and Proposals | Dept. of Rural Sociology, Univ. of Minnesota in cooperation with ARDA (Canada & Manitoba) | L. Nelson | March 1964 | 0.9 | Feb. 1965 | A documentation of the physical and human resource situation of the area and suggestions for development program in the farm sector, education, family planning and housing. |

RESOURCE USE AND DEVELOPMENT (Continued)

| Title of Project | Agency | :Period of Research: | | | Project Leader(s) | :Date: | | | Brief Outline |
|---|---|----------------------|------------|--------------------|---|----------|------------|--------------------|---|
| | | :Started | :Completed | :Profes- sional | | :Started | :Completed | :Profes- sional | |
| | | | | | | | | | |
| Summary Report on Pilot Research Region, Northern New Brunswick | Lockwood Survey Corp. Ltd. in cooperation with ARDA (Canada & N.B.) | July 1964 | Dec. 1965 | 4.0 | I.S. Fraser D.H. Rector J.R.T. Andrews G.S. Groves C.B. Haver | | | | A series of studies of physical resources, agriculture, forestry, fisheries and human resources. Involved several surveys in the area plus the development of programs designed to stimulate economic progress. |
| Esquisse Du Plan - L'Agriculture | Bureau d'aménagement de l'est du Québec, Inc. in cooperation with ARDA (Canada & Quebec) | March 1964 | Oct. 1965 | | | | | | One of the series of studies outlining the economic structure of agriculture in the Gaspé area including the bio-physical and economic factors. Present alternative programs for improving agricultural production and farm income. |
| Vallée de la Rouge - Brome Stamford Aménagement du Territoire, Québec | Société Technique d'Aménagement Régional (STAR), in cooperation with ARDA (Canada and Quebec) | June 1963 | Feb. 1964 | 3.2 | | | | | Aspects relating to regional planning that were considered bio-physical including geography, soils and forestry, agriculture, regional demography, tourism, roads, public reaction and an overall regional economic analysis. |
| Resource Inventory of the Turtle Mountain area, Southwestern Manitoba | Man. Dept. of Agric. and Conservation and local governments in cooperation with ARDA | 1966 | | 0.6 | B. Ransom | | | | The compilation, analysis and interpretation of information gathered in several disciplines or resource study projects into one overall resource inventory. |

RESOURCE USE AND DEVELOPMENT (Continued)

| Title of Project | Agency | Period of Research | | Project Leader(s) | Date | | Profes- sional man-years | Brief Outline |
|--|--|--------------------|------------|--|-------|-------|--------------------------------|---|
| | | :Started | :Completed | | :Date | :Date | | |
| The Farm Potential on Two Saskatchewan Indian Reserves and a Proposal for an ARDA Program | Can. Centre for Community Studies in cooperation with ARDA (Canada) | July 1965 | March 1966 | H.L. Buckley S. Campbell | | | 0.5 | A study of present farming activities, government policies, the Mistawasis community farm project and exploration of the possible role of agricultural rehabilitation through ARDA on two Indian Reserves. |
| A Functional Analysis of Agricultural Resource Utilization in Saskatchewan Census Division Sixteen | Dept. of Agric. Econ. Univ. of Sask. in cooperation with Can. Centre for Community Studies and ARDA (Canada) | May 1963 | April 1964 | A. Schmitz | | | 1.0 | A study of agricultural resource use, investigation of possible adjustments, and providing policy recommendations for increased income and economic growth. Primarily an application of production function analysis based on a survey of 222 farmers in two farming areas within this census division. |
| A Resources Inventory of Census Division Sixteen, Saskatchewan | Canadian Centre for Community Studies in cooperation with ARDA (Canada) | Jan. 1965 | May 1966 | H.L. Buckley H. Richards R. Rees | | | 1.0 | A general description of selected aspects of the physical and human resources. Information on the geographic setting, climate, agriculture, forestry and minerals and trade centres. |
| Manufacturing Industry in Saskatchewan: A Study in Growth and Future Prospects | Canadian Centre for Community Studies in cooperation with ARDA (Canada) | June 1964 | Nov. 1965 | H.L. Buckley | | | 1.1 | A study to explore the prospects for manufacturing industries in Saskatchewan. Specific interests were to predict new areas of employment and number of jobs to be created by future development. Reviews past growth of Saskatchewan, obstacles to industrial growth and detailed reports on ten major industries. |

4. RURAL SOCIOLOGY

| Title of Project | Agency | Period of Research | | Project Leader(s) | Date | | Profes- sional man-years | Brief Outline |
|--|--|--------------------------------|---------------|-------------------|---------|-----------|--------------------------------|---|
| | | Started | Completed | | Started | Completed | | |
| 4.1 <u>Population and Migration</u> | | | | | | | | |
| A Migration Classification of Rural Municipalities in Southern Ontario | Dept. of Agric. Econ. Univ. of Guelph in coope- ration with Can. Dept. of Agric. | R.S. Rodd R.H. Koop | April 1966 | June 1967 | 0.8 | | | This study is to estimate the net migra- tion in the 1951-1961 period in rural municipalities and urban centres of Southern Ontario and to classify rural areas according to type and degree of migration. |
| Social and Economic Status of People who have Migrated from Farms | Dept. of Agric. Econ. Univ. of Alberta in coo- peration with ARDA | W.B. Rogers | May 1966 | Sept. 1968 | 2.0 | | | A study of changes in social and econo- mic status; comparative levels of income; assets; skills; education; attitudes of migrants, potential migrants and non- migrants; comparative standards of li- ving; and policies and programs designed to encourage migration. |
| The People of Manitoba, 1951-61 | Man. Dept. of Agric. and Con- servaation in cooperation with ARDA | E.F. Sharp G.A. Kristjanson | July 1963 | March 1965 | 2.0 | | | A study of demographic data of popula- tion growth and distribution, changes and migration, sex and age distribution, ethnic and nationality groups and human resources in Agriculture in Manitoba. |
| An Explanatory Study of Factors Related to Popula- tion Migration in the R.M. of Rosedale, Manitoba | Manitoba Development Authority in coope- ration with ARDA | E.J. Tyler | July 1963 | March 1964 | 1.0 | | | The purpose of this study was to deter- mine the factors related to the tenden- cy of people to migrate from a given rural area and to identify the people most likely to migrate. |

| Title of Project | Agency | Project Leader(s) | Period of Research | | | Brief Outline |
|---|---|-------------------|--------------------|----------------|--------------------------------|--|
| | | | Date Started | Date Completed | Professionals : man-years : | |
| A Further Examination of Factors Related to Population | Manitoba Development Authority in cooperation with ARDA | E.J. Tyler | April 1964 | March 1965 | 1.0 | A study to develop and refine methods and procedures for predicting accurately individual migrant behaviour in rural areas (of Manitoba). Based on interviews with migrants in the R.M. of Rosedale. |
| Rural Population Change in the Interlake Area. Manitoba 1941 to 1961 | Man. Dept. of Agric. and Conservation in cooperation with ARDA (Canada) | T.R. Weir | April 1963 | April 1964 | 1.0 | A study of the nature, extent, causes and effects of population changes in the Interlake area (an area selected for rural development assistance). Consideration of people who left the area and the types of employment taken. |
| A Study of the Effects of Displacement on Farmers whose Land was Purchased for Two Community Pastures in Saskatchewan | Canadian Centre for Community Studies in cooperation with ARDA (Canada) | J.A. Abramson | May 1965 | Dec. 1965 | 0.7 | A study of the economic and social effects of displacement and adjustment problems of 18 farmers and their families moved from lands incorporated into two community pastures. |
| Adjustments Associated with Migration from Farm operators to urban wage Earners | Canadian Centre for Community Studies in cooperation with ARDA (Canada) | J.A. Abramson | Sept. 1965 | | 0.8 | A survey of 100 former farmers now living in Saskatoon, Saskatchewan. Covered the farm situation, the migration characteristics prior to leaving the farm, attempts to protect adjustment prior to migration, and their adjustment to the urban environment. |

RURAL SOCIOLOGY (Continued)

| Title of Project | Agency | Period of Research | | | Project Leader(s) | Period of Research | | | Brief Outline |
|--|--|--------------------|------------|-------------|--|--------------------|------------|-------------|---|
| | | : Date | : Started | : Completed | | : Date | : Started | : Completed | |
| | | | | | | | | | |
| A Comparative Study of Value Orientations Among Three Ethnic Groups, Interlake Area, Manitoba | Univ. of Manitoba in cooperation with Can. Dept. of Agric. and ARDA (Canada) | April 1963 | March 1965 | | M.W. Stancliffe M. Jutovich M.P. Moore | April 1963 | March 1965 | | A study of basic values of the Icelandic, German and Ukrainian groups in the Interlake area with the view of determining the relevance of findings to receptiveness of social aid. A theoretical analysis of value orientation and development of empirical index. |
| A Socio-Economic Study and Recommendations, Sunnyville, Lincolnville, and Upper Big Tracadie, Guysborough County, N.S. | Institute of Public Affairs, Dalhousie University in cooperation with N.S. Dept. of Public Works and ARDA (Canada) | June 1964 | Nov. 1965 | | G. Henson | June 1964 | Nov. 1965 | | A general study of the area and Negro communities with specific examination of the educational and depressed economic conditions. It attempts to establish a useful guide or "map" for proposed change. |
| The Mactaquac Regional Development Plan: Community, Social Structure, and Program Implementation | H.G. Acres & Co. Ltd. in cooperation with ARDA (Canada & N.B.) | | | | R.L. Clinch | | | | The study provides an insight into the social life of the area in order to expedite implementation of the development plan. Deals with the impact of the relocation aspects on levels of community participation, adaptation, collective action, leadership and information and education. |
| A Preliminary Report of Rural Poverty in Four Selected Areas of Canada | Canadian Welfare Council in cooperation with ARDA (Canada) | Feb. 1965 | June 1965 | | D.E. Woodsworth | Feb. 1965 | June 1965 | | This is a report dealing with case studies of poor rural families with the objective of presenting an image of poverty which were common to four areas chosen as disadvantaged by ARDA developed indices and representative of the major Canadian groups. The disadvantaged characteristics included income, health, welfare, education and social participation. |

RURAL SOCIOLOGY (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional man-years | Brief Outline |
|---|--|-------------------|--------------------|-------------------|--------------------------------|---|
| | | | Date Started | Date Completed | | |
| A Study of Selected Farm Families in Submarginal Areas of Saskatchewan | Sask. Dept. of Social Welfare and Rehabilitation in cooperation with ARDA (Canada) | K.J. Tarasoff | May 1963 | July 1964 | 1.0 | A study of social, economic and personal conditions and adjustment problems of farm families moving from community pasture project areas. |
| Economic and Social Disadvantages in Canada, Some Graphic Indicators of Location and Degree | Agricultural Rehabilitation and Development, Dept. of Forestry | R.C. Hodges | May 1964 | Oct. 1964 | 0.5 | A visual presentation showing the location and degree of social disadvantage in rural areas of Canada. The series of nine maps shows the counties and census divisions, distribution of population, low income farms, low rural non-farm wages, low urban wages, low non-farm family incomes, registrations for employment, low education levels, and infant mortality. |
| Housing and Environmental Conditions in the Prairie Provinces | Can. Centre for Community Studies in cooperation with Central Housing and Mortgage Corporation | J.A. Munger | Jan. 1963 | June 1966 | 4.0 | A study of the broad perspective changes in the land settlement pattern and how these changes are affecting the way people live in rural areas. Emphasis on effects of urbanization on rural housing and public facilities. Basic data is 1961 census by subdivisions. |

RURAL SOCIOLOGY (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Professional man-years | Brief Outline |
|--|--|------------------------------|--------------------|----------------|---------------------------|---|
| | | | Date Started | Date Completed | | |
| A Study of the Adoption of Innovations Among Dairy Farmers, Fraser Valley, B.C. | Dept. of Agric. Econ. and Agric. Extension, Univ. of B.C. | C. Verner F.H. Gubbels | Sept. 1964 | Aug. 1966 | 0.8 | A study of innovations of dairy farmers in the Fraser Valley and a comparison with dairy farmers in other agricultural sectors. |
| A Comparison of Behavioural Aspects of Management of Fruit Farmers in the Okanagan, B.C. and in Kent, U.K. | Dept. of Agric. Econ. Univ. of B.C. | H.J. Dorling | May 1966 | May 1967 | 0.5 | This is a cross cultural study of farm management behaviour comparing fruit growers in the two countries. The study concerns socio-economic characteristic level of production, management and particularly the decision making aspects. |
| Perception of Role Definitions by District Agriculturists and Horticulturists in B.C. | Dept. of Agric. Econ. Univ. of B.C. | C. Verner C.H. Job | Sept. 1963 | May 1965 | 0.5 | A study of role theory as developed by Wilkenings concerning role performance and fulfilment as well as an inclination of role conflict, role frustration and role in adequacy of extension agents. |
| The Education of Commercial Fishermen in Manitoba | Dept. of Rural Sociology Univ. of Minnesota in cooperation with ARDA (Canada & Manitoba) | L. Nielson S.E. Sigurdson | March 1964 | Dec. 1964 | 0.8 | A survey of fishermen in the Interlake region and the fishing stations. The purpose was to design an adult education and extension system for fishermen. The study also was planned to determine the effectiveness of communication in Metis-Indian villages. |

RURAL SOCIOLOGY (Continued)

| Title of Project | Agency | Period of Research | | | Project Leader(s) | Period of Research | | | Brief Outline |
|--|---|--------------------|---------|------------|--------------------------------|--------------------|---------|------------|--|
| | | Date | Started | Completed | | Date | Started | Completed | |
| | | | | | | | | | |
| The Influence of Selected Family Factors on the Educational and Occupational Aspiration Levels of High School Aged Youth | Dept. of Sociology, Univ. of Manitoba in cooperation with Man. Dept. of Agric. & Conservation, National Grain Co., and ARDA (Canada & Manitoba) | April 1964 | | June 1965 | L.B. Siemens | April 1964 | | June 1965 | This was a sociology study of 1844 grade 11 and 12 students in both rural and urban areas with a focus primarily on importance of family factors on educational and occupational aspirations. |
| Educational Plans and Their Fulfilment | Dept. of Sociology, Univ. of Manitoba in cooperation with Man. Dept. of Agric. & Conservation National Grain Co. and ARDA (Canada and Manitoba) | April 1964 | | Sept. 1965 | L.B. Siemens J.E.W. Jackson | April 1964 | | Sept. 1965 | This was a follow up to previous studies whereby high school principals were interviewed to determine whether representative farm, town and city graduating students had fulfilled their educational aspirations. |
| Leadership Patterns in a Manitoba Agricultural Fishing Community | ARDA (Canada) | June 1963 | | Jan. 1964 | L.B. Siemens D.P. Forcese | June 1963 | | Jan. 1964 | A sample survey of 100 local residents to identify local leaders, determine the pattern of interpersonal relationships among them and to study the relationship between leadership and social characteristics. Various identification techniques considered. |

RURAL SOCIOLOGY (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | | Brief Outline |
|--|---|------------------------------|--------------------|----------------|------------------------|---|
| | | | Date Started | Date Completed | Professional man-years | |
| School Related Factors and the Aspiration Levels of Manitoba Senior High School Students | Dept. of Sociology, Univ. of Manitoba in cooperation with Man. Dept. of Agric. & Conservation, National Grain Co., and ARDA (Can. & Man.) | D.P. Forcese L.B. Siemens | April 1964 | March 1965 | 1.0 | A study to determine the relationship between aspiration levels and internal and external school related factors. Data from 1844 students in three areas of the Province. |
| The Community Development Council: Case Studies in Success and Failure | Can. Centre for Community Studies in cooperation with ARDA (Canada) | V.W. Larsen | May 1958 | Sept. 1965 | 2.0 | An evaluation of success or failure of community development councils in four communities of Saskatchewan. Includes description of conditions in each community, the council structure, genesis, membership and operation. Special chapter on implications for rural development. |
| Economic Aspects of Education in a Low Income Area, A Case Study of Census Division 16, Saskatchewan | Canadian Centre for Community Studies in cooperation with ARDA (Canada) | W.P. Janssen | June 1964 | May 1965 | 0.5 | A study of the relationship between economic and social characteristics and education with a comparison between a high and low income area. |
| Communication and Diffusion of Improved Farm Practices in Two Northern Saskatchewan Farm Communities | Canadian Centre for Community Studies in cooperation with ARDA (Canada) | F.O. Leuthold | May 1964 | May 1966 | 2.0 | A study of 222 farmers in two communities concerning communications media, extension information, opinion leadership, and factors associated with adoption behaviour. |

5.0 AGRICULTURAL POLICY

| Title of Project | Agency | Project Leader(s) | Period of Research | | Brief Outline |
|---|---|--------------------------|--------------------|----------------|---|
| | | | Date Started | Date Completed | |
| Provincial Policy and Administration of Public Lands with Particular Reference to Agriculture | Economics Branch, Canada Department of Agriculture | R.A. Stutt | March 1965 | March 1966 | 0.4 This is a description of the current land policy and administration of public lands in each province by agencies as it affects agricultural use. It concerns the disposition, control, management, improvement, conservation, planning development features of these lands; and current farm consolidation and enlargement policy. |
| Review of Dairy Farms Receiving Payments under the Federal Price Support Program | Economics Branch, Canada Department of Agriculture | H. Western J.W. White | Feb. 1966 | Feb. 1967 | 0.3 A study of the dairy farm enterprise as to efficiency and profitability based on a mail questionnaire to all dairy producers registered with the Agricultural Stabilization Board. The purpose is to rationalize future dairy support policies. |
| The Canadian Vegetable Oils Industry | Economics Branch, Canada Dept. of Agriculture | J.S. Carmichael | July 1966 | July 1967 | 0.5 The purpose of this study is to provide background information to assist in policy development respecting price supports, tariffs, location of plants, industry requirements, etc. |
| Appraisal of Economic Prospects of Newfoundland Agriculture | Dept. of Agric. Econ. Macdonald College in co-operation with Newfoundland Dept. of Agric. | C.B. Haver | July 1966 | July 1967 | 2.5 An appraisal of problems and prospects of Newfoundland Agriculture with a view to suggesting guidelines for public policy. |

AGRICULTURAL POLICY (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Date Completed | Professional Span - years | Brief Outline |
|--|---|---|--------------------|----------------|----------------|---------------------------|---|
| | | | Date Started | Date Completed | | | |
| A Review of Agricultural Policy in Canada | Agric. Econ. Research Council of Canada | W.M. Drummond W.J. Anderson T.C. Kerr | Dec. 1963 | June 1966 | 2.0 | | A study of the formulation and historical development of agricultural policy in Canada and its relation to national policy goals. Stress was laid on significant sequence of events out of which present policy has emerged. |
| Federal Policies of Rural Land Use Adjustment in Growth of Regional Income | Canadian Centre for Community Studies in cooperation with Economic Council of Canada and ARDA Rural Development Council | H. Buckley E. Tihanyi | July 1966 | Dec. 1966 | 1.4 | | A review and analysis of federal policies and programs in this area with respect to objectives, scope, experience and potentials for relative incomes in rural areas and their resulting impact on regional income levels. Explicit coverage of P.F.R.A., M.M.R.A., and ARDA. |

6.0 COOPERATION

| Title of Project | Agency | Project Leader(s) | Period of Research | | | Brief Outline |
|---|--|----------------------------|--------------------|--------------|-------------|---|
| | | | Date | Started | Completed | |
| | | | | | | |
| Recent Changes within the Canadian Cooperative Movement | Economics Branch Canada Dept. of Agriculture | R.L. Fortier | Dec. 1965 | Dec. 1966 | 1.0 | Emphasis is placed in this study on changes in structure, investment, amalgamations, consolidation and extension functions. |
| Agricultural Cooperatives in Quebec | Econ. Branch, CDA in cooperation with Quebec Royal Commission on Agriculture | R.L. Fortier | Oct. 1965 | Oct. 1966 | 0.5 | A study of the growth and efficiency of agricultural marketing and farm supply purchasing cooperatives for the period of 1963-1965. |
| Basic Principles of Cooperation | Dept. of Agric. Econ. Univ. of Manitoba | T.D. Harris J.C. Gilson | Oct. 1964 | continuing | 1.0 /yr. | A study to determine the economic potential for future operations of cooperative industries serving agriculture. |
| The Cooperative Movement in Newfoundland | Cooperative Union of Canada in cooperation with ARDA (Canada) | D. Snowden | May 1964 | Oct. 1965 | 0.8 | A study of the historical, aspects of the movement and present situation with recommendations for strengthening cooperatives and their role in community development. Examination related to production cooperatives. |

7.0 RESEARCH METHODOLOGY AND THEORY

96.

| Title of Project | Agency | Period of Research | | Project Leader(s) | Date | | Professional man-years | Brief Outline |
|---|--|--------------------|-----------|----------------------------|-----------|-----------|---------------------------|--|
| | | Started | Completed | | Started | Completed | | |
| Handbook for the Classification of Irrigated Land in the Prairie Provinces | Econ. Branch, CDA in cooperation with Land Classification Committee, CDA | 1965 | 1965 | K. Elgaard C.S. Douglas | 1965 | 1965 | 0.1 | Information was assembled on soils topography, climate, drainage and economic factors. The various factors were collated with respect to influence on irrigation productivity and a realistic system for land classification was developed. |
| An Inventory of Agricultural Economics Research in Canada | Economics Branch, Canada Dept. of Agriculture | July 1966 | Dec. 1966 | R.A. Stutt | July 1966 | Dec. 1966 | 0.3 | This is a catalogue of research projects in agricultural economics, including rural sociology, according to main categories and subcategories, covering the period of January 1964 to end of 1966. It forms part of a total inventory agricultural research inventory under the auspices of CASCC. |
| Farmers' Estimation of Acreage in Comparison with Aerial Photo Measurements, Manitoba, 1961 | Economics Branch, Canada Dept. of Agriculture | Feb. 1964 | Feb. 1966 | L.E. Philpotts | Feb. 1964 | Feb. 1966 | 0.5 | This study compares the estimated acreages of farms and measured acreages in an area of Manitoba. Study included 1,700 fields of crop and other agricultural uses and deals with 23 different physical and economic factors. |

RESEARCH METHODOLOGY AND THEORY (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Profes- sional man-years | Brief Outline |
|--|--|--|--------------------|-------------------|--------------------------------|--|
| | | | Date Started | Date Completed | | |
| The Use of Aerial Photography in Identifying Disease in Apple Orchards | Econ. Branch, CDA in cooperation with Research Branch, CDA | L.E. Philpotts | May 1966 | Feb. 1967 | 0.2 | The use of colours in aerial photogra- phy through different types of film and filter combinations to detect va- rious reflectance changes in the meso- phyll of leaves in orchard due to disease or insect damage. |
| Monthly Mail-In Dairy Study, Ontario | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | F. Barnes | Nov. 1963 | 1966 | 1.0 | This is an explanatory study in the collection, processing and analyses for future D.H.I.A. dairy records for members. Five members in Durham County cooperated. Development of manual of instructions and new procedure. |
| Development of a Farm Payroll Record | Farm Econ. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food. in cooperation with Farm Orga- nizations and Ont. Fed. Prov. Ag. Manpower Committee | F. Abraham | Dec. 1965 | June 1966 | 0.2 | Design of a farm payroll record to include labor wages, salaries, deductions primarily for Canada Pension Plan and Income Tax purposes. |
| Winter Wheat Objective Yield Study | Agric. Div. DBS in cooperation with Farm Econ. Coop. & Stat. Branch and Ridgetown Exp. Station, Ont. Dept. of Agric. and Food and Ont. Winter Wheat Marketing Board | W.L. Porteous J.M. Gray C.K. Riach W. Bokovoy | May 1965 | Oct. 1966 | 1.0 | An experimental study to apply new forecasting methods developed by U.S.D.A. based on plant, population and head counts and other factors of sample plots with special emphasis on pre-harvest estimates. |

RESEARCH METHODOLOGY AND THEORY (Continued)

| Title of Project | Agency | Period of Research | | Project Leader(s) | Profes- sional man-years | Brief Outline |
|---|--|--------------------|-------------------|---|--------------------------------|--|
| | | Date Started | Date Completed | | | |
| Farm Enumeration of Field Crops Yields, Ontario | Agric. Div. Coop. & Stat. Branch, Ont. Dept. of Agric. and Food | Nov. 1966 | Jan. 1967 | V.L. Porteous W. Bokovoy C.M. Riach | 0.5 | A study of differences of crop yields by counties prepared from non-random sample mail questionnaires and enumerative surveys. Based on random samples of farms in Dundas and Carleton counties. |
| Experimental Apple Crop Yield Estimates, Okanagan Valley, B.C. | Agric. Div. DBS in cooperation with B.C. Tree Fruit Ltd., Econ. Branch, CDA and B.C. Dept. of Agric. | Feb. 1966 | Dec. 1967 | J.M. Gray Y.S. Hwang D.M. Mackay | 1.0 | A methodology study to forecast the average yield per tree of McIntosh and Red Delicious apples based on a count and average size of fruit on sample limbs. Based on 1966 and 1967 data for a sample of 140 apple trees in 35 different orchards. |
| An Objective Yield Survey of Grapes, Ontario | Agric. Div. DBS in cooperation with Ont. Dept. of Agric. and Food | July 1966 | Aug. 1967 | J.M. Gray C.M. Riach G. Mercier | 0.2 | A study of the possibility of developing and using objective crop estimating methods for grapes with emphasis on pre-harvest forecasts. Based on a count of bunches and grapes in each sub-sample of 80 vines in 16 vineyards in Southern Ontario. |
| An Economic and Statistical Evaluation of Crop Yield Distribution in Manitoba | Dept. of Agric. Econ. Univ. of Manitoba | Sept. 1963 | May 1965 | M.H. Yeh R. Wu | 0.7 | A study designed to evaluate the methodology used in testing the statistical distribution of crop yields in four major agricultural areas of Manitoba. An adjusted normal curve approach method was used. |

RESEARCH METHODOLOGY AND THEORY (Continued)

| Title of Project | Agency | Project Leader(s) | Period of Research | | Brief Outline |
|---|--|----------------------------------|--------------------|---------------------|---|
| | | | Date Started | Date Completed | |
| | | | :man-years: | :Profes- sional: | |
| Considerations Involved in Developing a Valid Comparison of Farm and Non-Farm Incomes in Canada | Dept. of Agric. Econ. Univ. of Manitoba | J.C. Gilson S.N. Kulshreshtha | Sept. 1962 | May 1965 | 1.6 An analysis of the measures which should be used in a valid comparison of farm and non-farm incomes. Time series and cross sectional analysis - Canada wide. |
| The Application of Mathematical and Statistical Concepts to Economic Research | Dept. of Agric. Econ. Univ. of Manitoba | M.H. Yeh | May 1962 | Sept. 1966 | 0.5 /yr. The purpose of this project was to introduce the combined use of mathematics and economics in solving economic farm problems - a theoretical analysis. |
| Weather Cycles and Crop Predictions | Depts. of Agric. Econ., and Mathe- matics, Univ. of Manitoba with the Agric. Econ. Re- search Council | M.H. Yeh D. Black | May 1963 | Sept. 1965 | 0.9 A methodology study with the major purpose of compiling a weather index; show importance of weather factor influencing crop yields; and forecasting crop yields in Manitoba Study in four areas. |

Agencies Contacted for Agricultural Economics Research InventoryATLANTIC PROVINCES

Atlantic Provinces Economic Council, Research Centre, Fredericton, N.B.

N.S. Department of Agriculture and Marketing, Truro, Nova Scotia.

Department of Economics, Dalhousie University, Halifax, N.S.

Institute of Public Affairs, Dalhousie University, Halifax, N.S.

N.B. Department of Agriculture, Fredericton, New Brunswick.

P.E.I. Department of Agriculture, Charlottetown, P.E.I.

Memorial University, St. John's, Newfoundland.

QUEBEC

Economics Division, Department of Agriculture and Colonization, Quebec City.

Department of Agricultural Economics, Macdonald College, Ste. Anne de Bellevue.

Centre for Developing-Area Studies, McGill University, Montreal.

Bishop's University, Lennoxville.

ONTARIO

Economics Branch, Canada Department of Agriculture, Ottawa, (including regional offices at Truro, N.S., Regina, Sask., and Vancouver, B.C.)

Agricultural Economics Research Council c/c Carleton University, Ottawa.

Economics Council of Canada, 116 Albert St., Ottawa, Ontario.

Atlantic Development Board, Gov't of Canada, 396 Cooper St., Ottawa.

Farm Economics, Cooperatives and Statistics Branch, Ontario Department of Agriculture and Food, 1901 Yonge Street, Toronto.

Ontario Economics Council, 950 Yonge Street, Toronto.

Ontario Research Foundation, 43 Queen's Park Crescent East, Toronto.

Department of Agricultural Economics, O.A.C., University of Guelph, Guelph.

Department of Economics, Queen's University, Kingston.

Brock University, St. Catharines.

Department of Economics, University of Western Ontario, London.

Lakehead University, Port Arthur.

Department of Economics, University of Toronto, Toronto.

Department of Economics, McMaster University, Hamilton.

Faculty of Economics, Trent University, Peterborough.

Department of Economics, University of Windsor, Windsor.

Department of Economics, York University, Toronto 12.

Waterloo Lutheran University, Waterloo.

Faculty of Arts, University of Waterloo, Waterloo.

MANITOBA

Department of Agricultural Economics, University of Manitoba, Winnipeg.
Economics and Publications Branch, Manitoba Department of Agriculture, Winnipeg.
Department of Economics, University of Manitoba, Winnipeg.
Department of Economics, Brandon College, Brandon.

Hedlin, Menzies and Associates Ltd., 610 - 177 Lombard Avenue, Winnipeg 2.

SASKATCHEWAN

Economics and Statistics Branch, Saskatchewan Department of Agriculture, Regina, Sask.
Department of Agricultural Economics, University of Saskatchewan, Saskatoon.
Department of Economics and Political Science, University of Sask., Saskatoon.
Department of Cooperation and Cooperative Development, Regina.

ALBERTA

Department of Agricultural Economics, University of Alberta, Edmonton.
Farm Economics Branch, Alberta Department of Agriculture, Edmonton.
Department of Lands and Forests, Edmonton.

BRITISH COLUMBIA

Department of Agriculture, Victoria.
Department of Agricultural Economics, University of B.C., Vancouver.
Department of Economics and Commerce, Simon Fraser University, Burnaby 2.

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